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4. AUXILARY GS PROTOCOL (COMMANDS 1Dh)	

Change LOG

version 1901311135

Adding commands for KL devices V2 with zfpdefs:

ProgPayment_Old, ReadPayments_Old, ReadDailyAvailableAmounts_Old, ReadDailyRA_Old, ReadDailyPO_Old, ReadDailyReceivedSalesAmounts_Old, ReadDailyReturnedChangeAmounts_Old, ReadDailyRAbyOperator_Old, ReadDailyPObyOperator_Old, ReadDailyReceivedSalesAmountsByOperator_Old, ReadDailyReturnedChangeAmountsByOperator_Old

Command with *zfpdef*: *OpenStornoReceipt* from parameter *StornoReason* is removed option 2 – *Tax relief*

Commands with *zfpdefs*: *OpenCreditNoteWithFreeCustomerData* and *OpenCreditNoteWithFDCustomerDB*, parameter *StornoReason* is hardcoded with value '2' – *tax relief*

Command with zfpdef: ReceivedOnAccount_PaidOut Parameter length OperPass is changed from 4 symbols to 6 symbols.

Command with zfpdef: ReadCurrentReceiptInfo changes positions of paramters SubtotalAmountVAT4, SubtotalAmountVAT5, SubtotalAmountVAT6, SubtotalAmountVAT7.

version 1902191535

Adding additional message response format in point 1.3 Adding parameter for printing RA/PO availability in command *ReceivedOnAccount*, parameter name *PrintAvailability*.

version 1903211145

Commands with zfpdefs: SetDateTime(DateTime), OpenStornoReceipt, OpenCreditNoteWithFreeCustomerData, OpenCreditNoteWithFDCustomerDB are with added seconds in the related parameters. This will not confuse the workflow with V2 devices!

Command with zfpdef: OpenStornoReceipt from parameter StornoReason is added option 2 – Tax relief

Commands with zfpdef: *OpenCreditNoteWithFreeCustomerData* and *OpenCreditNoteWithFDCustomerDB*, parameter *StornoReason* is with added options values - '0' – *Operator error*, - '1' – *Goods Claim or Goods return*

version 1904091202

Adding new commands with zfpdefs: OpenElectronicReceipt,

OpenElectronicInvoiceWithFreeCustomerData, OpenElectronicInvoiceWithFDCustomerDB, for opening of all types receipts in electronic formats

Adding new command with zfpdef: ReadReceiptNumQRcodeData for reading QR code data of specified receipt number

version 1905071026

Commands with zfpdefs: ProgPayment, ProgPayment_Old, ReadPayments, ReadPayments_Old(), parameters ExchangeRate and Rate are with changed length from 10 to 1..10.

Adding new command with zfpdef: ReadElectronicReceiptNumDataFromEJ

version 1906120933

Command with zfpdef: ReadElectronicReceiptNumDataFromEJ is renamed to ReadElectronicReceiptDataFromEJ

version 1907251601

Add new commands with zfpdef: ReadElectronicReceipt_QR_Data, ReadElectronicReceipt_QR_ASCII() and ReadElectronicReceipt_QR_BMP for reading electronic receipts with their QR code in different formats

version 1908131009

Edit command ReadLastDailyReportInfo parameter LastReceiptType parameter Remove commands for open electronic storno and credit note receipts.

version 1910211454

No protocol changes.

version 2005141555

Added new commands for read and program parameter for printing of automatic Z-daily report after 24h from first daily sale with zfpdefs: ProgramDailyReportParameter and ReadDailyReportParameter.

Added new parameter PayType in command with zfpdef: ReceivedOnAccount_PaidOut Added new command for Generating of Z daily fiscal report without printing with zfpdef: ZDailyReportNoPrint

Added new command with zfpdefs: ArrangePayments and ReadPaymentsPositions for changing/reading positions of payments in the new Fiscal Devices.

Command with zfpdefs: *ProgDepartment*, ReadDepartment, ReadDepartmentAll, parameter Number is with changed length from [1..2] to [1..3].

Adding command with zfpdef: SellPLUwithSpecifiedVATfor200DepRangeDevice for register sells of departments only for devices which support up to 200 departments.

Adding commands with zfpdefs: ProgramNBLParameter, ReadNBLParameter for programming/reading parameter for NBL monitoring.

Adding commands with zfpdefs: ProgramWeightBarcodeFormat, ReadWeightBarcodeFormat for programming/reading Weight barcode format.

Adding commands with zfpdefs: ProgramTransferAmountParam RA,

ReadTransferAmountParam_RA, for program and read parameter for transfer automatic available amounts after Z report

Adding command with zfpdef: ReadLastDailyReportAvailableAmounts for reading daily available amounts in cash and currency, Z report number, Z report type.

Adding commands for reading Fiscal Memory reports with zfpdefs:

ReadDetailedFMReportByZBlocks(), ReadDetailedFMPaymentsReportByZBlocks(), ReadDetailedFMDepartmentsReportByZBlocks(), ReadBriefFMReportByZBlocks(), ReadBriefFMDepartmentsReportByZBlocks(), ReadDetailedFMReportByDate(), ReadDetailedFMPaymentsReportByDate(), ReadDetailedFMDepartmentsReportByDate(), ReadBriefFMReportByDate(), ReadBriefFMPaymentsReportByDate(), ReadBriefFMDepartmentsReportByDate()

version 2208081230

Changed length of parameter Name in command 44h for KL devices

1. COMMUNICATION PROTOCOL

The type of the protocol is Master / Slave. The communication session is always initiated by the Application Software. FD caries out the commands send by the software application and provides a feedback depending on the result. FD sends back an "Acknowledgement response" or "message response". All messages of the protocol are either packed or single-byte. FD supports communication standard RS232, USB, BT, TCP (WiFi, LAN).

Serial port adjustment parameters:

Speed: 115200 bit/s (or 19200, 38400, 57600 and 9600 if such is set for the

FD)

8 bits word No parity 1 stop bit

TCP adjustment parameters:

Port: Always 8000

Password: Send directly to opened socket with **0Ah**(LF) for end.

In example if password is 1234 when open TCP socket sends

0x31 0x32 0x33 0x34 0x0A

1.1. MESSAGE FORMAT FROM THE SOFTWARE APPLICATION TO THE FD

All messages except those described in section 4., sent to the FD by the PC have the following structure:

<STX><LEN><NBL><CMD><DATA...DATA><CS><CS><ETX>

The table below contains description of the field enclosed between the symbols < and >:

Field	No.	Value		
	of			
	bytes			
STX	1	Message start – always 02h		
LEN	1	Message length (number of bytes including LEN, NBL, CMD, DATA)		
		increased by 20h i.e. a number in the 20h - FFh range		
NBL	1	<i>Message number</i> increased by 20h i.e. a number in the 20h - 9Fh range		
CMD	1	Command - a number in the 20h - 7Fh range(see the description of		
		commands)		
DATA	0 -	Additional data - a group of data fields separated with the symbols ';',		
DATA	3902	giving additional information needed for execution of the command (see		
		the description of commands)		
CS CS	2	Checksum, compiled as follows:		
		1) Operation XOR of all bytes from LEN to DATA inclusive = 0 FFh		
		2) Conversion of 2 bytes by adding 30h, for example:		
		B5h -> 3Bh 35h		
ETX	1	End of message – always 0Ah (LF)		

The texts data of the message is sent as ASCII text with code table cp1251 (Windows 1251).

1.2. MESSAGE FORMAT FROM THE FD TO THE SOFTWARE APPLICATION

There are several types of response depending on the message received.

1.2.1. Acknowledgement response

Positive acknowledgement – when package format is correct. It is sent when the command is acknowledged as well as when it is rejected (errors in the data sent (field <DATA...DATA>) or the command cannot be executed or the command is illegal depending on the current status of the FD indicated by the two status bytes). It is a package message with the following format:

<ACK><NBL><STE><STE><CS><CS><ETX>

Fields description:

Field	No	Value	
	bytes		
ACK	1	06h	
NBL	1	No. of message = NBL of message related to receipt	
STE	2	rror status-bytes. A two-digit ASCII number. (see Table Errors)	
STE			
CS CS	2	Checksum, compiled as follows:	
		1) Operation XOR on NBL STE и STE = 00h FFh	
		2) Conversion of 2 bytes by adding 30h, for example:B5h -> 3Bh 35h	
ETX	1	0Ah (LF)	

The two status-bytes are a two-digit ASCII number, in which the first digit provides information about the error in the FD, and the second one – about a command error.

Table Errors:

Byte value	FD errors	Byte value	Command errors
30	ок	30	ОК
31	Out of paper, printer failure	31	Invalid command
32	Registers overflow	32	Illegal command
33	Clock failure or incorrect date&time	33	Z daily report is not zero
34	Opened fiscal receipt	34	Syntax error
35	Payment residue account	35	Input registers overflow
36	6 Opened non-fiscal receipt		Zero input registers
37	Registered payment but receipt is not closed		Unavailable transaction for correction
38	Fiscal memory failure		Insufficient amount on hand
39	Incorrect password		
3a	Missing external display		
3b	24hours block – unprinted Z report		
3c	Overheated printer thermal head.		
3d	Interrupt power supply in fiscal receipt (one time until status is read)		
3e	Overflow EJ		
3f	Insufficient conditions		

A two-digit number is compiled depending on the type of error.

Example: Error 32 – Illegal command due to clock failure

Negative acknowledgement – It is sent when the package format is incorrect. It is 1-byte **NACK = 15h** without checksum.

Repetition request – It is sent when the FD is busy executing the preceding command. It is 1 byte **RETRY = 0Eh** without checksum.

1.2.2. Message response

It has the format of the packed message sent by the SA to the FD (see 3.1.) but is returned by the FD to the SA and contains information – response to the query (see description of commands).

1.3. SHORT MESSAGES FOR TESTING THE STATUS OF THE FD

The exchange protocol includes two unpacked single-byte codes for testing the status of the FD, which can quickly determine the status of the device. The two codes and their meaning are shown in the table below:

Query SA	Response FD		Meaning	
04	04		FD is on	
	40	D:1 0	FD is READY	
	41	Bit.0	FD is busy	
	42	Bit.1	FD out of paper	
	43		FD out of paper and busy	
	44	Bit.2	FD printer is overheated	
09	45		FD printer is overheated and busy	
	48		FD missing external display	
	49		FD missing external display and busy	
	50	FD is wa	iting for password (LAN or WiFi connection only)	
	60	FD is alre	eady busy with another connection (LAN or WiFi connection only)	
	70	70 Wrong password (LAN or WiFi connection only)		

The format of the commands is described in art. 2. **DESCRIPTION OF THE COMMANDS OF FISCAL DEVICE**

2. DESCRIPTION OF THE COMMANDS

2.1. FORMAT AND PRESENTATION OF COMMANDS

All commands are described and presented using the following terms and symbols:

Key terms:

Command – the value of the CMD field of the message sent by the software application and in the message response of the the FD.

input – structure of the fields included in the DATA field of the message sent by the software application.

output – for each command it may be one of the following:

- Acknowledgement response.
- Structure of the fields included in the DATA field of the message response sent by the FD.

Input data – description of the contents of the "input" fields. *Output data* – description of the contents of the "output" fields.

Key symbols:

- compulsory symbol
- compulsory DateTime format
- compulsory data field
- compulsory data field
- field separator
- field length
- non-compulsory data field

zfpdef: - function name in the generated source code and file server file name

General rules:

Format of the price/value field – from 1 to 10 symbols, a floating decimal point number, preceded by +, - or SPACE.

Examples: -12.34 +56.7 8

Format of the quantity field – from 1 to 10 symbols, a floating decimal point number, up to three digits after the decimal point.

Examples: 1.234 56.78 9

Format of the rate (percentage) field – from 2 to 7 symbols, a floating decimal point number, up to two digits after the decimal point, preceded by the percent symbol - %.

Examples: -12.34% +5.67% 8.9% 10%

Payment Number 0 corresponds to the main payment – IN CASH, payment Number 11 corresponds to the special currency payment - VAT account.

2.2. GENERAL COMMANDS

These are commands for the general functions of the FD, related to obtaining diagnostic information and to direct access to some of the functions of the device (paper feeding, paper cutting, and display visualization).

2.2.1. Command: 20h / SP - Status

input: n. a.

output: <StatusBytes[7]>

FPR operation: Provides detailed 7-byte information about the current status of the

fiscal printer.

Input data : n. a.

Output data :

N byte	N bit	status flag		
	0	FM Read only		
	1	Power down in opened fiscal receipt		
	2	Printer not ready - overheat		
CTO	3	DateTime not set		
ST0	4	DateTime wrong		
	5	RAM reset		
	6	Hardware clock error		
	7	1		

	0	Printer not ready - no paper
	1	Reports registers Overflow
	2	Customer report is not zeroed
CT4	3	Daily report is not zeroed
SII	4	Article report is not zeroed
	5	Operator report is not zeroed
	6	Non-printed copy
	7	1

	0	Opened Non-fiscal Receipt
	1	Opened Fiscal Receipt
	2	Opened Fiscal Detailed Receipt
СТЭ	3	Opened Fiscal Receipt with VAT
ST2	4	Opened Invoice Fiscal Receipt
	5	SD card near full
	6	SD card full
	7	1

	0	No FM module
	1	FM error
	2	FM full
ста	3	FM near full
ST3	4	Decimal point (1=fract, 0=whole)
	5	FM fiscalized
	6	FM produced
	7	1

	0	Printer: automatic cutting
	1	External display: transparent display
	2	Speed is 9600
ST4	3	reserve
314	4	Drawer: automatic opening
	5	Customer logo included in the receipt
	6	reserve
	7	1

	0	Wrong SIM card
	1	Blocking 3 days without mobile operator
	2	No task from NRA
CTE	3	reserved
ST5	4	reserved
	5	Wrong SD card
	6	Deregistered
	7	1

ST6	0	No SIM card
	1	No GPRS Modem
	2	No mobile operator
	3	No GPRS service
	4	Near end of paper
	5	Unsent data for 24 hours
	6	reserved
	7	1

zfpdef:ReadStatus()

2.2.2. Command: 21h / ! - Version

input: n. a.

output: <DeviceType[1..2]> <;> <CertificateNum[6]> <;>

<CertificateDateTime "DD-MM-YYYY HH:MM"> <;> <Model[50]> <;> <Version[20]>

FPR operation: Provides information about the device type, Certificate number,

Certificate date and time and Device model.

Input data : n. a. Output data :

DeviceType 1 or 2 symbols for type of fiscal device:

- '1' - ECR

- '11' - ECR for online store

- '2' - FPr

- '21' - FPr for online store

- '3' - Fuel

- '31' – Fuel system - '5' – for FUVAS device

CertificateNum 6 symbols for Certification Number of device model CertificateDateTime 16 symbols for Certificate Date and time parameter

in format: DD-MM-YYYY HH:MM

Model Up to 50 symbols for Model name

Version Up to 20 symbols for Version name and Check sum

zfpdef: ReadVersion()

2.2.3. Command: 22h / " - Diagnostics

input: n. a. output: ACK

FPR operation: Prints out a diagnostic receipt.

Input data: n. a.

Output data: n. a.

zfpdef:PrintDiagnostics()

2.2.4. Command: 24h / \$ - Clear display

input: n. a. output: ACK

FPR operation: Clears the external display.

Input data : n. a.
Output data : n. a.
zfpdef: ClearDisplay()

2.2.5. Command: 25h / % - Display text line 1

input: <Text[20]>
output: ACK

FPR operation: Shows a 20-symbols text in the upper external display line.

Input data :

Text 20 symbols text

Output data: n. a.

zfpdef: DisplayTextLine1(Text)

2.2.6. Command: 26h / & - Display text line 2

input: <Text[20]> output: ACK

FPR operation: Shows a 20-symbols text in the lower external display line.

Input data :

Text 20 symbols text

Output data: n. a.

zfpdef: DisplayTextLine2(Text)

2.2.7. Command: 27h / '- Display text lines 1 and 2

input: <Text[40]> output: ACK

FPR operation: Shows a 20-symbols text in the first line and last 20-symbols text in

the second line of the external display lines.

Input data :

Text 40 symbols text

Output data: n. a.

zfpdef: DisplayTextLines1and2(Text)

2.2.8. Command: 28h / (– Display date and time

input: n. a. output: ACK

FPR operation: Shows the current date and time on the external display.

Input data : n. a.

Output data : n. a.

zfpdef: DisplayDateTime()

2.2.9. Command: 29h /) - Cut paper, FP only

input: n. a. output: ACK

FPR operation: Start paper cutter. The command works only in fiscal printer

devices.

Input data : n. a.

Output data : n. a.

zfpdef: CutPaper()

2.2.10. Command: 2Ah / * - Cash drawer opening

input: n. a. output: ACK

FPR operation: Opens the cash drawer.

Input data : n. a.

Output data : n. a.

zfpdef: CashDrawerOpen()

2.2.11. Command: 2Bh / + - Paper feeding

input: n. a. output: ACK

FPR operation: Feeds one line of paper.

Input data : n. a.

Output data : n. a.

zfpdef: PaperFeed()

2.3. FISCAL COMMANDS

These are commands requiring data recording in the fiscal memory of the device. Password access is required.

2.3.1.1. Command: 56h / V – Set type of fiscal device, Option T

input: <'T'> <;> <FDType[1]> <;> <Password[3]>

output: ACK

FPR operation: Define Fiscal device type. The command is allowed only in non-fiscal mode, before fiscalization and after deregistration before the next fiscalization. The type of device can be read by Version command 0x21.

Input data :

'T' 1 symbol for option 'T'

FDType 1 symbol for fiscal device type with value:

- '0' - FPr for Fuel type 3

'1' – Main FPr for Fuel system type 31
'2' - ECR for online store type 11
'3' - FPr for online store type 21

- '*' - reset default type

Password 3-symbols string

Output data: n. a.

zfpdef: SetFiscalDeviceType(FDType, Password)

2.3.1.2. Command: 41h / A - Set customer UIC information, Option 1

input: <Password[6]> <;> <'1'> <;> <UIC[13]> <;> <UICType[1]>

output: ACK

FPR operation: Stores the Unique Identification Code (UIC) and UIC type into the operative memory.

Input data :

Password 6-symbols string

'1' One symbol with value 1
UIC 13 symbols for UIC

UICType 1 symbol for type of UIC number:

- '0' - Bulstat - '1' - EGN

- '2' – Foreigner Number- '3' – NRA Official Number

Output data: n. a.

zfpdef: SetCustomerUIC(Password, UIC, UICType)

2.3.1.3. Command: 41h / A - Confirm fiscalization, Option 2

input: <*Password*[6]> <;> <'2'>

output: ACK

FPR operation: Confirm Unique Identification Code (UIC) and UIC type into the

operative memory.

Input data :

Password 6-symbols string

'2' One symbol with value '2'

Output data: n. a.

zfpdef: ConfirmFiscalization(Password)

2.3.2. Command: 42h / B - Change VAT rates

input: <Password[6]> <;> <VATrate0[6]> <;> <VATrate1[6]> <;> <VATrate2[6]> <;> <VATrate7[6]><;> <VATrate7[6]>

output: ACK

FPR operation: Stores a block containing the values of the VAT rates into the fiscal memory. Print the values on the printer.

Input data :

Password 6-symbols string VATrate0 Value of VAT rate A from 6 symbols in format ##.## Value of VAT rate 5 from 6 symbols in format ##.## VATrate1 Value of VAT rate B from 6 symbols in format ##.## VATrate2 Value of VAT rate Γ from 6 symbols in format ##.## VATrate3 Value of VAT rate Д from 6 symbols in format ##.## VATrate4 Value of VAT rate E from 6 symbols in format ##.## VATrate5 Value of VAT rate X from 6 symbols in format ##.## VATrate6 VATrate7 Value of VAT rate 3 from 6 symbols in format ##.##

Output data: n. a.

zfpdef: ProgVATrates(Password, VATrate0, VATrate1, VATrate2, VATrate3, VATrate4, VATrate5, VATrate6, VATrate7)

2.3.3. Command: 43h / C - Change decimal point position

input: <Password[6]> <;> <DecimalPointPosition[1]>

output: ACK

FPR operation: Stores a block containing the number format into the fiscal

memory. Print the current status on the printer.

Input data:

Password
DecimalPointPosition

6-symbols string
1 symbol with values:
- '0'- Whole numbers

- '2' - Fractions

Output data: n. a.

zfpdef: ProgDecimalPointPosition(Password, DecimalPointPosition)

2.4. PROGRAMMING COMMANDS

Set of commands, for programming the FD configuration according to the POS requirements and the user's needs.

2.4.1. Command: 44h / D - Program payment types

input: <PaymentNum[1..2]> <;> <Name[10]> { <;> <Rate[1..10]> }

output: ACK

FPR operation: Preprogram the name of the payment type.

Input data:

PaymentNum 1 symbol for payment type

- '9' – Payment 9 - '10' – Payment 10 - '11' – Payment 11

Name 10 symbols for payment type name

Rate (Exchange Rate) Up to 10 symbols for exchange rate in format: ########

of the 11th payment type, maximal value 0420.00000

Output data: n. a.

zfpdef: ProgPayment(PaymentNum, Name, PaymentRate)

2.4.2. Command: 44h / D - Program payment types, KL

input: <Number[1]><;><Name[10]><;><Rate[1..10]><;><CodePayment[1]>

output: ACK

FPR operation: Preprogram the name of the type of payment. Command works for

KL version 2 devices.

Input data:

Number 1 symbol for payment type

'1' – Payment 1'2' – Payment 2'3' – Payment 3'4' – Payment 4

Name 10 symbols for payment type name. Only the first 6 are printable and only

relevant for CodePayment '9' and ':'

Rate (Exchange Rate) Up to 10 symbols for exchange rate in format: ####.#####

of the 4th payment type, maximal value 0420.00000

CodePayment 1 symbol for code payment type with name:

- '1' - Check - '2' - Talon - '3' - V. Talon - '4' - Packaging - '5' - Service - '6' - Damage - '7' - Card

- 7 – Card - '8' – Bank

'9' – Programming Name1':' – Programming Name2

Output data: n. a.

Note: For Payment type 4 code payment type cannot be selected

zfpdef: ProgPayment_Old(Number, Name, PaymentRate, CodePayment)

2.4.3. Command: 44h / D - Arrange payment types, new devices

input: <Option['*']> <;> <PaymentPosition0[2]> <;> <PaymentPosition1[2]> <;> <PaymentPosition2[2]> <;> <PaymentPosition3[2]> <;> <PaymentPosition4[2]> <;> <PaymentPosition5[2]> <;> <PaymentPosition6[2]> <;> <PaymentPosition8[2]> <;> <PaymentPosition9[2]> <;> <PaymentPosition10[2]> <;> <PaymentPosition11[2]>

output: ACK

FPR operation: Arrangement of payment positions according to NRA list: 0-Cash, 1-Check, 2-Talon, 3-V.Talon, 4-Packaging, 5-Service, 6-Damage, 7-Card, 8-Bank, 9-Programming Name 1, 10-Programming Name 2, 11-Currency.

Input data:

Option 1 symbol with value '*'

PaymentPosition0 2 digits for payment position 0 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition1 2 digits for payment position 1 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition2 2 digits for payment position 2 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition3 2 digits for payment position 3 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition4 2 digits for payment position 4 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition5 2 digits for payment position 5 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition6 2 digits for payment position 6 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition7 2 digits for payment position 7 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition8 2 digits for payment position 8 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition9 2 digits for payment position 9 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition10 2 digits for payment position 10 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition11 2 digits for payment position 11 in format ##.

Values from '1' to '11' according to NRA payments list.

Output data: n. a.

zfpdef: ArrangePayments(PaymentPosition0, PaymentPosition1, PaymentPosition2, PaymentPosition3, PaymentPosition4, PaymentPosition5, PaymentPosition6, PaymentPosition7, PaymentPosition8, PaymentPosition9, PaymentPosition10, PaymentPosition11)

2.4.4. Command: 45h / E - Program parameters

input: <POSNum[4]> <;> <PrintLogo[1]> <;> <AutoOpenDrawer[1]> <;>
<AutoCut[1]> <;> <ExternalDispManagement[1]> <;> <ArticleReportType[1]> <;>
<EnableCurrency[1]> <;> <EJFontType[1]> <;> <reserved['0']> <;>
<WorkOperatorCount[1]>

output: ACK

FPR operation: Programs the number of POS, printing of logo, cash drawer opening, cutting permission, external display management mode, article report type, enable or disable currency in receipt, EJ font type and working operators counter.

Input data :

POSNum (POS Number) 4 symbols for number of POS in format ####

PrintLogo (Print Logo) 1 symbol of value:

- '1' - Yes - '0' - No

AutoOpenDrawer (Auto Open Drawer) 1 symbol of value:

- '1' - Yes - '0' - No

AutoCut (Auto Cut) 1 symbol of value:

- '1' - Yes - '0' - No

ExternalDispManagement (Ext. Display Management) 1 symbol of value:

- '1' - Manual - '0' - Auto

ArticleReportType (Article Report) 1 symbol of value:

- '1' - Detailed - '0' - Brief

EnableCurrency (Enable Currency) 1 symbol of value:

- '1' – Yes - '0' – No

EJFontType (EJ Font) 1 symbol of value:

- '1' - Low Font - '0' - Normal Font 1 symbol reserved '0'

reserved 1 symbol reserved '0'

WorkOperatorCount (Work Operator Count) 1 symbol of value:

- '1' - One - '0' - More

Output data: n. a.

Notes:

The logo is a graphical file in **BMP** format with dimensions 384x80 / 448 X 160 /576x80 points, which is printed at the head of every receipt

"ExternalDispManagement" is a mode, in which the FD does not send information to the display except when executing the 25h, 26h and 27h commands. When this mode is off the FD "uses" the display to show data during sales, at receipt finalization, etc.

zfpdef: ProgParameters(POSNum, *PrintLogo*, *AutoOpenDrawer*, *AutoCut*, *ExternalDispManagement*, *EJFormat*, *ArticleRepType*, *EnableCurrency*, *EJFontType*, *WorkOperatorCount*)

2.4.5. Command: 47h / G - Program department

input: <Number[1..3]> <;> <Name[20]> <;> <OptionVATClass[1]> { <;> <Price[1..10]> <;> <OptionDepPrice[1]> <;> <AdditionalName[14]> }

output: ACK

FPR operation: Set data for the state department number from the internal FD database. Parameters *Price*, *OptionDepPrice* and *AdditionalName* are not obligatory and require the previous not obligatory parameter.

Input data:

Number Up to 3 symbols department number Name 20 characters department name OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'Б' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

Price Up to 10 symbols for department price

OptionDepPrice 1 symbol for Department price flags with next value:

'0' - Free price disabled'1' - Free price enabled'2' - Limited price

- '4' - Free price disabled for single transaction
- '5' - Free price enabled for single transaction
- '6' - Limited price for single transaction

AdditionalName

14 characters additional department name

Output data : n. a.

Note:

When changing the VAT group attachment of department must actualize the VAT groups of all articles attached to this department. Otherwise they won't be accessible for sale.

zfpdef: ProgDepartment(Number, Name, OptionVATClass, Price, OptionDepPrice, AdditionalName)

2.4.6. Command: 48h / H - Program date and time

input: <DateTime "DD-MM-YY HH:MM:SS">

output: ACK

FPR operation: Sets the date and time and prints out the current values.

Input data:

Date Time Date Time parameter in format: DD-MM-YY HH:MM:SS

Output data : n. a.

zfpdef: SetDateTime(DateTime)

2.4.7. Command: 49h / I - Program display greeting message

input:<'0'> <;> < DisplayGreetingText[20]>

output: ACK

FPR operation: Program the contents of a Display Greeting message.

Input data:

'0' 1 symbol with value '0'

DisplayGreetingText 20 symbols for Display greeting message

Output data: n. a.

zfpdef:ProgDisplayGreetingMessage(DisplayGreetingText)

2.4.8. Command: 49h / I – Program header lines

input:<OptionHeaderLine[1]> <;> <HeaderText[TextLength]>

output: ACK

FPR operation: Program the contents of a header lines.

Input data :

OptionHeaderLine (Line Number) 1 symbol with value:

- '1' – Header 1 - '2' – Header 2 - '3' – Header 3 - '4' – Header 4 - '5' – Header 5 - '6' – Header 6 - '7' – Header 7

HeaderText TextLength symbols for header lines

Output data: n. a.

zfpdef:ProgHeader(OptionHeaderLine, HeaderText)

2.4.9. Command: 49h / I - Program footer line

input:<'8'> <;> <FooterText[TextLength]>

output: ACK

FPR operation: Program the contents of a footer lines.

Input data :

'8' 1 symbol with value '8'

FooterText TextLength symbols for footer line

Output data: n. a.

zfpdef:ProgFooter(FooterText)

2.4.10. Command: 49h / I - Program header UIC prefix

input:<'9'> <;> <HeaderUICprefix[12]>

output: ACK

FPR operation: Program the content of the header UIC prefix.

Input data :

'9' 1 symbol with value '9'

HeaderUICprefix 12 symbols for header UIC prefix

Output data: n. a.

zfpdef: ProgHeaderUICprefix(HeaderUICprefix)

2.4.11. Command: 4Ah / J - Program operator's name and password

input: <Number[1..2]> <;> <Name[20]> <;> <Password[6]>

output: ACK

FPR operation: Programs the operator's name and password.

Input data :

Number Symbols from '1' to '20' corresponding to operator's number

Name 20 symbols for operator's name Password 6 symbols for operator's password

Output data: n. a.

zfpdef: ProgOperator(Number, Name, Password)

2.4.12. Command: 4Bh / K - Program article

input: <PLUNum[5]> <;> <Name[20]> <;> <Price[1..10]> <;> <OptionVATClass[1]>
<;> <BelongToDepNum[1..3]>

output: ACK

FPR operation: Programs the data for a certain article (item) in the internal database. The price may have variable length, while the name field is fixed.

Input data:

PLUNum 5 symbols for article number in format: #####

Name 20 symbols for article name Price Up to 10 symbols for article price

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'Б' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

BelongToDepNum (Department Number) BelongToDepNum + 80h, 1 symbol for article

department attachment, formed in the following manner:

BelongToDepNum [HEX] + 80h example: Dep01 = 81h, Dep02 = 82h ...

Dep19 = 93h

Department range from 1 to 127

Output data: n. a.

Notes:

When programming department attachment, FD checks whether the corresponding department is attached to same VAT group. In case they don't match no changes will be applied. Programming of value 0 (no department attachment) is possible any time.

If no number is entered in the field of department attachment the command will execute with value 0 (no department attachment).

zfpdef: ProgPLU_Old(PLUNum, Name, Price, OptionVATClass, BelongToDepNum)

2.4.13. Command: 4Bh / K - Program article general registers, Option 1

input: <PLUNum[5]> <;> <Option['#@1+\$']> <;> <Name[34]> <;> <Price[1..10]> <;>
<OptionPrice[1]> <;> <OptionVATClass[1]> <;> <BelongToDepNum[1..3]> <;>
<SingleTransaction[1]>

output: ACK

FPR operation: Programs the general data for a certain article in the internal database. The price may have variable length, while the name field is fixed.

Input data:

PLUNum 5 symbols for article number in format: #####

Option 5 symbols with value '#@1+\$'

Name 34 symbols for article name

Price Up to 10 symbols for article price

OptionPrice 1 symbol for price flag with next value:

- '0'- Free price is disable valid only programmed price

- '1'- Free price is enable

- '2'- Limited price

OptionVATClass 1 character for VAT class:

- 'A' — VAT Class 0 - 'Б' — VAT Class 1 - 'B' — VAT Class 2 - 'Г' — VAT Class 3 - 'Д' — VAT Class 4 - 'E' — VAT Class 5 - 'Ж' — VAT Class 6 - '3' — VAT Class 7 - '*' - Forbidden

BelongToDepNum (Department Number) BelongToDepNum + 80h, 1 symbol for article

department attachment, formed in the following manner:

BelongToDepNum[HEX] + 80h example: Dep01 = 81h, Dep02 = 82h ...

Dep19 = 93h

Department range from 1 to 127

SingleTransaction 1 symbol with value:

- '0' - Inactive, default value

- '1' - Active Single transaction in receipt

Output data: n. a.

zfpdef: ProgPLUgeneral(PLUNum, Name, Price, OptionPrice, OptionVATClass,

BelongToDepNum, SingleTransaction)

2.4.14. Command: 4Bh / K - Program article quantity in stock, Option 2

input: <PLUNum[5]> <;> <Option['#@2+\$']> <;> <AvailableQuantity[1..11]> <;>
<OptionQuantityType[1]>

output: ACK

FPR operation: Programs available quantity and Quantity type for a certain article in the internal database.

Input data:

PLUNum 5 symbols for article number in format: #####

Option 5 symbols with value '#@2+\$'

Available Quantity (Available Quantity) Up to 11 symbols for available quantity in stock

OptionQuantityType 1 symbol for Quantity flag with next value:

- '0'- Availability of PLU stock is not monitored

'1'- Disable negative quantity'2'- Enable negative quantity

Output data: n. a.

zfpdef: ProgPLUgty(PLUNum, AvailableQty, OptionQuantityType)

2.4.15. Command: 4Bh / K - Program article barcode, Option 3

input: <PLUNum[5]> <;> <Option['#@3+\$']> <;> <Barcode[13]>

output: ACK

FPR operation: Programs Barcode of article in the internal database.

Input data:

PLUNum 5 symbols for article number in format: #####

Option 5 symbols with value '#@3+\$'

Barcode 13 symbols for barcode

Output data: n. a.

zfpdef: ProgPLUbarcode(PLUNum, Barcode)

2.4.16. Command: 4Bh / K - Program article price, Option 4

input: <*PLUNum*[5]> <;> <*Option*['#@4+\$']> <;> <*Price*[1..10]> <;>

<OptionPrice[1]>
 output: ACK

FPR operation: Programs price and price type for a certain article in the internal

database. *Input data :*

PLUNum 5 symbols for article number in format: #####

Option 5 symbols with value '#@4+\$'

Price Up to 10 symbols for article price

OptionPrice 1 symbol for price flag with next value:

- '0'- Free price is disable valid only programmed price

- '1'- Free price is enable - '2'- Limited price

Output data: n. a.

zfpdef: ProgPLUprice(PLUNum, Price, OptionPrice)

2.4.17. Command: 4Bh / K - Erase all PLU database

input: <PLUNum['00000']> <;> <Option['#@\$+\$']> <;> <Password[6]>

output: ACK

FPR operation: Erase all articles in PLU database.

Input data:

PLUNum 5 symbols '00000'

Option 5 symbols with value '#@\$+\$'
Password 6 symbols for password

Output data: n. a.

zfpdef: EraseAllPLUs(Password)

2.4.18. Command: 4Ch / L – Program logo without setting a number (default number 0)

input: <BMPfile[9022]>

output: ACK

FPR operation: Stores in the memory the graphic file under number 0. Prints information

about loaded in the printer graphic files.

Input data:

BMPfile *BMP file with fixed size 9022 bytes

Output data: n. a.

Notes:

FD has the ability to store up to 10 different BMP files for logo with numbers from 0 to 9, as one of them is "active" and is printed as receipt's logo. If there is no file loaded under the number, stated as "active", FD will work as set for work without logo.

zfpdef: ProgLogo(BMPfile)

2.4.19. Command: 4Dh / M - Program logo with setting a number

input: <LogoNumber[1]> <BMPfile[3902/9022/5822]>

output: ACK

FPR operation: Stores in the memory the graphic file under stated number. Prints

information about loaded in the printer graphic files.

Input data:

LogoNumber 1 character value from '0' to '9' setting the number where the logo will be saved.

BMP file with fixed size 3902/9022/5822 bytes

Output data: n. a.

zfpdef: ProgLogoNum(LogoNumber, BMPfile)

2.4.20. Command: 23h / # - Program active logo number

Input: <LogoNumber[1]>

output: ACK

FPR operation: Sets logo number, which is active and will be printed as logo in the

receipt header. Print information about active number.

Input data:

LogoNumber 1 character value from '0' to '9' or '?'. The number sets the active file, and

the '?' invokes only printing of information

Output data: n. a.

zfpdef: SetActiveLogoNum(LogoNumber)

2.4.21. Command: 51h / Q - Print barcode 'QP'

input: <'P'> <;> <CodeType[1]> <;> <CodeLen[1..2]> <;> <CodeData[100]>

output: ACK

FPR Operation: Prints barcode from type stated by CodeType and CodeLen and with data stated in CodeData field. Command works only for fiscal printer devices. ECR does not support this command. The command is not supported by KL ECRs!

Input data:

'P' 1 character 'P'

CodeType 1 symbol with possible values:

- '0' – UPC A - '1' – UPC E - '2' – EAN 13 - '3' – EAN 8 - '4' – CODE 39 - '5' – ITF

- '6' – CODABAR - 'H' – CODE 93 - 'I' – CODE 128

CodeLen Up to 2 bytes for number of bytes according to the table CodeData Up to 100 bytes data in range according to the table

Output data: n.a.

Table:

Barcode	<codetype></codetype>	<codelen></codelen>	Range of <codedata></codedata>
type			
UPC-A	'0' or 'A'	11 or 12	Digits from '0' to '9'
UPC-E	'1' or 'B'	11 or 12	Digits from '0' to '9'
JAN13 (EAN13)	'2' or 'C'	12 or 13	Digits from '0' to '9'
JAN8	'3' or 'D'	7 or 8	Digits from '0' to '9'

(EAN8)			
CODE 39	'4' or 'E'	from 1 to 10	Characters: 'SP' '\$' '%' '+' '-' '.' '/' Digits from ' 0 ' to ' 9 ' letters from ' A' to ' Z '
ITF	'5' or 'F'	from 2 to 18 (evens only)	Digits from "0' to '9'
CODABAR	'6' or 'G'	From 1 to 15	Characters: '\$' '+' '-' '/' digits from '0' to '9' letters from 'A' to 'D'
CODE 93	'H'	From 1 to 14	Bytes from 0 to 7F
CODE 128	'I'	From 1 to 12	Bytes from 0 to 7F

The length restriction for some of the barcode types is because of the the print area not because of the barcode standard. If more data is sent the printed barcode may not be read correctly.

zfpdef: PrintBarcode(CodeType, CodeLen, CodeData)

2.4.22. Command: 50h / P – Program invoice number range

input: <StartNum[10]> <;> <EndNum[10]>

output: ACK

FPR Operation:Set invoice start and end number range. To execute the command is necessary to grand following condition: the number range to be spent, not used, or not set after the last RAM reset.

Input data:

Output data: n. a.

zfpdef: SetInvoiceRange(StartNumber, EndNumber)

2.4.23. Command: 52h / R – Program customer database

input: <Option['P']> <;> <CustomerNum[4]> <;> <CustomerCompanyName[26]>
<;> <CustomerFullName[16]> <;> <VATNumber[13]> <;> <UIC[13]> <;> <Address[30]>
<;> <UICType[1]>

output: ACK

FPR Operation:Program customer in FD data base.

Input data:

Option 1 symbol with value 'P'

Customer Number) 4 symbols for customer number in format ####

CustomerCompanyName (Company name) 26 symbols for customer name

CustomerFullName (Buyer Name) 16 symbols for Buyer name VATNumber 13 symbols for VAT number on customer

UIC 13 symbols for customer Unique Identification Code

Address 30 symbols for address on customer

UICType 1 symbol for type of Unique Identification Code:

- '0' - Bulstat - '1' - EGN

- '2' – Foreigner Number- '3' – NRA Official Number

Output data: n. a.

zfpdef: ProgCustomerData(CustomerNum, CustomerFirmName, CustomerFullName, UIC, FiscNum, Address, UICType)

2.4.24. Command: 4Fh / O – Program parameter for printing or not printing of automatic Z-daily report

input: <'H'> <;> <'W'> <;> <OptionDailyReport[1]>

output: ACK

FPR Operation: Program automatic daily report printing or not printing parameter.

Input data:

'H' 1 symbol with value 'H'
'W' 1 symbol with value 'W'
OptionDailyReport 1 symbol with value:

- '1' – Print automatic Z report- '0' – Generate automatic Z report

Output data: n. a.

zfpdef: ProgramDailyReportParameter(OptionDailyReport)

2.4.25. Command: 4Fh / O – Program parameter for NBL monitoring

input: <'*N*'> <;> <'W'> <;> <OptionNBL[1]>

output: ACK

FPR Operation: Program NBL parameter to be monitored by the fiscal device.

Input data:

'N'
 'W'
 OptionNBL
 1 symbol with value 'W'
 1 symbol with value:

- '0' - No - '1' - Yes

Output data: n. a.

zfpdef: ProgramNBLParameter(OptionNBL)

2.4.26. Command: 4Fh / O – Program weight barcode format

input: <'B'> <;> <'W'> <;> <OptionBarcodeFormat[1]>

output: ACK

FPR Operation:Program weight barcode format.

Input data:

'B' 1 symbol with value 'B'
'W' 1 symbol with value 'W'
OptionBarcodeFormat 1 symbol with value:
- '0' – NNNNcWWWWW

- '1' — NNNNWWWWW

Output data: n. a.

zfpdef: ProgramWeightBarcodeFormat(OptionBarcodeFormat)

2.4.27. Command: 4Fh / O – Program parameter for automatic transfer available amounts (new ECR Only)

input: <'A'> <;> <'W'> <;> <OptionTransferAmount[1]>

output: ACK

FPR Operation: Program parameter for automatic transfer of daily available

amounts. *Input data:*

'A' 1 symbol with value 'A' 1 symbol with value 'W' 1 symbol with value 'W' 1 symbol with value:

- '0' - No - '1' - Yes

Output data: n.a.

zfpdef: ProgramTransferAmountParam_RA(OptionTransferAmount)

2.5. DATA READING COMMANDS

Set of commands for receiving information from the FD about programmed values as well as additional information.

2.5.1. Command: 60h / ' - Read FD numbers

input: n. a.

output: <SerialNumber[8]> <;> <FMNumber[8]>

FPR operation: Provides information about the manufacturing number of the fiscal

device and FM number.

Input data : n. a. Output data :

SerialNumber 8 symbols for individual number of the fiscal device FMNumber 8 symbols for individual number of the fiscal memory

zfpdef: ReadSerialAndFiscalNums()

2.5.2. Command: 61h / a - Read registration information

input: n. a.

output: <UIC[13]> <;> <UICType[1]><;> <NRARegistrationNumber[6]><;>

<NRARegistrationDate "DD-MM-YYYY HH:MM" >

FPR operation: Provides information about the programmed VAT number, type of

VAT number, register number in NRA and Date of registration in NRA.

Input data : n. a. Output data :

UIC 13 symbols for Unique Identification Code

UICType 1 symbol for type of Unique Identification Code:

- '0' - Bulstat - '1' - EGN

'2' – Foreigner Number'3' – NRA Official Number

NRARegistrationNumber Register number on the Fiscal device from NRA

NRARegistrationDate Date of registration in NRA

zfpdef: ReadRegistrationInfo()

2.5.3. Command: 62h / b - Read VAT rates

input: n. a.

output: <VATrate0[7]> <;> <VATrate1[7]> <;> <VATrate2[7]> <;> <VATrate3[7]>

<;> <VATrate4[7]> <;> <VATrate5[7]> <;> <VATrate6[7]> <;> <VATrate7[7]>

FPR operation: Provides information about the current VAT rates which are the last values stored into the FM.

Input data : n. a. Output data :

VATrate0 Value of VAT rate A from 7 symbols in format ##.##% VATrate1 Value of VAT rate 5 from 7 symbols in format ##.##% Value of VAT rate B from 7 symbols in format ##.##% VATrate2 Value of VAT rate Γ from 7 symbols in format ##.##% VATrate3 Value of VAT rate Д from 7 symbols in format ##.##% VATrate4 VATrate5 Value of VAT rate E from 7 symbols in format ##.##% VATrate6 Value of VAT rate X from 7 symbols in format ##.##% Value of VAT rate 3 from 7 symbols in format ##.##% VATrate7

zfpdef: ReadVATrates()

2.5.4. Command: 63h / c – Read decimal point position

input: n. a.

output: <DecimalPointPosition[1]>

FPR operation: Provides information about the current (the last value stored into

the FM) decimal point format.

Input data : n. a. Output data:

DecimalPointPosition 1 symbol with values:

- '0'- Whole numbers

- '2' - Fractions

zfpdef: ReadDecimalPoint()

2.5.5. Command: 64h / d – Read payment types

input: n. a.

output: <NamePayment0[10]> <;> <NamePayment1[10]> <;>

<NamePayment2[10]> <;> <NamePayment3[10]> <;> <NamePayment4[10]> <;>

<NamePayment5[10]> <;> <NamePayment6[10]> <;> <NamePayment7[10]> <;>

<NamePayment8[10]> <;> <NamePayment9[10]> <;> <NamePayment10[10]> <;>

<NamePayment11[10]> <;> <ExchangeRate[1..10]>

FPR operation: Provides information about all programmed types of payment, currency name and currency exchange rate.

Input data : n. a.

Output data:

10 symbols for payment name type 0 NamePavment0 10 symbols for payment name type 1 NamePayment1 10 symbols for payment name type 2 NamePayment2 10 symbols for payment name type 3 NamePayment3 10 symbols for payment name type 4 NamePavment4 10 symbols for payment name type 5 NamePayment5 NamePayment6 10 symbols for payment name type 6 NamePayment7 10 symbols for payment name type 7 10 symbols for payment name type 8 NamePayment8 10 symbols for payment name type 9 NamePayment9 NamePayment10 10 symbols for payment name type 10 NamePayment11 10 symbols for payment name type 11

ExchangeRate Up to 10 symbols for exchange rate of payment type 11 in format: ########

zfpdef: ReadPayments()

2.5.6. Command: 64h / d – Read payment types, KL

input: n. a.

output: <NamePaym0[6]> <;> <NamePaym1[6]> <;> <NamePaym2[6]> <;> <NamePaym3[6]> <;> <NamePaym4[6]><;> <ExRate[1..10]> <;> <CodePaym0[1]><;> <CodePaym1[1]><;> <CodePaym4[1]> <;> <CodePaym4[1]> <;> <CodePaym4[1]> <;> <CodePaym4[1]> <;> <CodePaym4[1]> <;</pre>

FPR operation: Provides information about all programmed types of payment.

Command works for KL version 2 devices.

Input data : n. a. Output data :

NamePaym0 6 symbols for payment name type 0
 NamePaym1 6 symbols for payment name type 1
 NamePaym2 6 symbols for payment name type 2
 NamePaym3 6 symbols for payment name type 3
 NamePaym4 6 symbols for payment name type 4

ExRate Up to 10 symbols for exchange rate of payment type 4 in format: ########

CodePaym0 1 symbol for code of payment 0 = 0xFF (currency in cash)
 CodePaym1 1 symbol for code of payment 1 (default value is '7')
 CodePaym2 1 symbol for code of payment 2 (default value is '1')
 CodePaym3 1 symbol for code of payment 3 (default value is '2')
 CodePaym4 1 symbol for code of payment 4 = 0xFF (currency in cash)

zfpdef: ReadPayments Old()

2.5.7. Command: 64h / d – Read payment arrangement positions

input: <Option["*"]>

output: <Option['*']> <;> <PaymentPosition0[2]> <;> <PaymentPosition1[2]> <;>
<PaymentPosition2[2]> <;> <PaymentPosition3[2]> <;> <PaymentPosition4[2]> <;>
<PaymentPosition5[2]> <;> <PaymentPosition6[2]> <;> <PaymentPosition10[2]> <;>
<PaymentPosition10[2]> <;> <PaymentPosition10[2]> <;> <PaymentPosition11[2]> <;></paymentPosition11[2]>

FPR operation: Provides information about arrangement of payment positions according to NRA list: 0-Cash, 1-Check, 2-Talon, 3-V.Talon, 4-Packaging, 5-Service, 6-Damage, 7-Card, 8-Bank, 9-Programming Name 1, 10-Programming Name 2, 11-Currency.

Input data:

Option 1 symbol with value '*'

Output data:

Option 1 symbol with value "*"

PaymentPosition0 2 digits for payment position 0 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition1 2 digits for payment position 1 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition2 2 digits for payment position 2 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition3 2 digits for payment position 3 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition4 2 digits for payment position 4 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition5 2 digits for payment position 5 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition6 2 digits for payment position 6 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition7 2 digits for payment position 7 in format ##.

Values from '1' to '11' according to NRA payments list.

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PaymentPosition8 2 digits for payment position 8 in format ##.

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Values from '1' to '11' according to NRA payments list.

PaymentPosition9 2 digits for payment position 9 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition10 2 digits for payment position 10 in format ##.

Values from '1' to '11' according to NRA payments list.

PaymentPosition11 2 digits for payment position 11 in format ##.

Values from '1' to '11' according to NRA payments list.

zfpdef: ReadPaymentsPositions()

2.5.8. Command: 65h / e – Read parameters

input: n. a.

output: <POSNum[4]> <;> <PrintLogo[1]> <;> <AutoOpenDrawer[1]> <;> <AutoCut[1]> <;> <ExternalDispManagement[1]> <;> <ArticleReportType[1]> <;> <EnableCurrency[1]> <;> <EJFontType[1]> <;> <reserved['0']> <;> <WorkOperatorCount[1]>

FPR operation: Provides information about the number of POS, printing of logo, cash drawer opening, cutting permission, display mode, article report type, Enable/Disable currency in receipt, EJ font type and working operators counter.

Input data : n. a. Output data :

POSNum (POS Number) 4 symbols for number of POS in format ####

PrintLogo (Print Logo) 1 symbol of value:

- '1' - Yes - '0' - No

AutoOpenDrawer (Auto Open Drawer) 1 symbol of value:

- '1' - Yes - '0' - No

AutoCut (Auto Cut) 1 symbol of value:

- '1' - Yes - '0' - No

ExternalDispManagement (External Display Management) 1 symbol of value:

- '1' - Manual - '0' - Auto

ArticleReportType (Article Report) 1 symbol of value:

- '1' - Detailed - '0' - Brief

EnableCurrency (Enable Currency) 1 symbol of value:

- '1' – Yes - '0' – No

EJFontType (EJ Font) 1 symbol of value:

- '1' - Low Font - '0' - Normal Font

reserved 1 symbol reserved '0'

WorkOperatorCount (Work Operator Count) 1 symbol of value:

- '1' - One - '0' - More

zfpdef: ReadParameters()

2.5.9. Command: 66h / f - Read detailed printer status

input: n. a.

output: <ExternalDisplay[1]> <;> <StatPRN[4]> <;> <FlagServiceJumper[1]>

FPR operation: Provides additional status information

Input data : n. a. Output data :

ExternalDisplay 1 symbol – connection with external display

- 'Y' - Yes

- 'N' - No

StatPRN

4 symbols for detailed status of printer (only for printers with **ASB**)

+ symbols for detailed states of printer (only for printe				
N byte	N bit	status flag		
	0	Reserved		
	1	Reserved		
	2	Signal level for drawer		
	3	Printer not ready		
ST0	4	Reserved		
	5	Open cover		
	6	Paper feed status		
	7	Reserved		

ST1	0	Reserved
	1	Reserved
	2	Reserved
	3	Cutter error
	4	Reserved
	5	Fatal error
	6	Overheat
	7	Reserved

	0	JNP (journal paper near end)
	1	RNP (receipt paper near end)
	2	
		JPE (journal paper end)
ST2	3	RPE (receipt paper end)
	4	Reserved
	5	Reserved
	6	Reserved
	7	Reserved

	0	Print data buffer data exists
	1	Reserved
	2	Reserved
ST3	3	Reserved
	4	Reserved
	5	Reserved
	6	Reserved

7 Reserved

FlagServiceJumper 1 symbol with value:

- 'J' - Yes - ' ' – No

zfpdef: ReadDetailedPrinterStatus()

2.5.10. Command: 67h / g – Read department registers

input: <DepNum[1..3]>

output: <DepNum[3]> <;> <DepName[20]> <;> <OptionVATClass[1]> <;> <Turnover[1..13]> <;> <SoldQuantity[1..13]> <;> <LastZReportNumber[1..5]> <;> <LastZReportDate "DD-MM-YYYY HH:MM">

FPR operation: Provides information for the programmed data, the turnover from the stated department number

Input data:

DepNum Up to 3 symbols for department number

Output data:

DepNum 3 symbols for department number in format ###

DepName 20 symbols for department name

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'Б' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

Turnover Up to 13 symbols for accumulated turnover of the article SoldQuantity Up to 13 symbols for sold quantity of the department Up to 5 symbols for the number of last Z Report

LastZReportDate 16 symbols for date and hour on last Z Report in format

"DD-MM-YYYY HH:MM"

zfpdef: ReadDepartment(*DepNum*)

2.5.11. Command: 67h / g - Read department registers, Option "(All)

input: <DepNum[1..3]> <;> <reserved[""]>

output: <DepNum[1..3]> <;> <reserved[""]> <;> <DepName[34]> <;>

<OptionVATClass[1]> <:> <Price[1..10]> <:> <OptionDepPrice[1]> <:>

<TurnoverAmount[1..13]> <;> <SoldQuantity[1..13]> <;> <StornoAmount[1..13]> <;>

<StornoQuantity[1..13]> <;> <LastZReportNumber[1..5]> <;>

<LastZReportDate "DD-MM-YYYY HH:MM">

FPR operation: Provides information for the programmed data, the turnovers from

the stated department number

Input data:

DepNum Up to 3 symbols for department number 1 symbol with value ' " ', quotation mark Reserved

Output data:

Up to 3 symbols for department number DepNum 1 symbol with value ' " ', quotation mark. reserved

20 symbols for department name DepName

OptionVATClass 1 character for VAT class: - 'A' - VAT Class 0

> - 'Б' – VAT Class 1 - 'B' - VAT Class 2 - 'L' - VAT Class 3 - 'Д' - VAT Class 4 - 'E' - VAT Class 5 - 'Ж' - VAT Class 6 - '3' - VAT Class 7 - '*' - Forbidden

Price Up to 10 symbols for department price

OptionDepPrice 1 symbol for Department flags with next value:

> - '0' - Free price disabled - '1' - Free price enabled - '2' - Limited price

- '4' - Free price disabled for single transaction - '5' - Free price enabled for single transaction - '6' - Limited price for single transaction

TurnoverAmount Up to 13 symbols for accumulated turnover of the article SoldQuantity Up to 13 symbols for sold quantity of the department Up to 13 symbols for accumulated storno amount StornoAmount StornoQuantity Up to 13 symbols for accumulated storno quantiy LastZReportNumber Up to 5 symbols for the number of last Z Report

LastZReportDate 16 symbols for date and hour on last Z Report in format

"DD-MM-YYYY HH:MM"

zfpdef: ReadDepartmentAll(DepNum)

2.5.12. Command: 68h / h - Read date and time

input: n. a.

output: <DateTime "DD-MM-YYYY HH:MM">

FPR operation: Provides information about the current date and time.

Input data : n. a. Output data:

DateTime Date Time parameter in format: DD-MM-YYYY HH:MM

zfpdef: ReadDateTime()

2.5.13. Command: 69h / i – Read display greeting message

input: <'0'>

output: <'0'> <;> <DisplayGreetingText[20]>

FPR operation: Provides the content of the Display Greeting message.

Input data :

'0' 1 symbol with value 0

Output data:

'0' 1 symbol with value 0

DisplayGreetingText 20 symbols for display greeting message

zfpdef: ReadDisplayGreetingMessage()

2.5.13. Command: 69h / i - Read header lines

input: <OptionHeaderLine[1]>

output:<OptionHeaderLine[1]> <;> <HeaderText[TextLength]>

FPR operation: Provides the content of the header lines

Input data:

OptionHeaderLine (Line Number) 1 symbol with value:

- '1' – Header 1 - '2' – Header 2 - '3' – Header 3 - '4' – Header 4

- '5' – Header 5 - '6' – Header 6 - '7' – Header 7

Output data:

OptionHeaderLine (Line Number) 1 symbol with value:

- '1' – Header 1 - '2' – Header 2 - '3' – Header 3 - '4' – Header 4 - '5' – Header 5

- '6' – Header 6 - '7' – Header 7

HeaderText TextLength symbols for header lines

zfpdef: ReadHeader(OptionHeaderLine)

2.5.15. Command: 69h / i – Read footer line

input: <'8'>

output: <'8'> <;> <FooterText[TextLength]>

FPR operation: Provides the content of the footer line.

Input data :

'8' 1 symbol with value '8'

Output data:

'8' 1 symbol with value '8'

FooterText TextLength symbols for footer line

zfpdef: ReadFooter()

2.5.16. Command: 69h / i - Read Header UIC prefix

input: <'9'>

output: <'9'> <;> <HeaderUICprefix[12]>

FPR operation: Provides the content of the header UIC prefix.

Input data :

'9' 1 symbol with value '9'

Output data:

'9' 1 symbol with value '9'

HeaderUICprefix 12 symbols for Header UIC prefix

zfpdef:ReadHeaderUICPrefix()

2.5.17. Command: 6Ah / j - Read operator's name and password

input: <Number[1..2]>

output: <Number[1..2]> <;> <Name[20]> <;> <Password[6]>

FPR operation: Provides information about operator's name and password.

Input data :

Number (Operator Number) Symbol from 1 to 20 corresponding to the number of

operators.

Output data:

Number Symbol from 1 to 20 corresponding to the number of operator

Name 20 symbols for operator's name Password 6 symbols for operator's password zfpdef: ReadOperatorNamePassword(Number)

2.5.18. Command: 6Bh / k - Read article

input: <PLUNum[5]>

output: <PLUNum[5]> <;> <PLUName[20]> <;> <Price[1..11]> <;>
<OptionVATClass[1]> <;> <Turnover[1..13]> <;> <QuantitySold[1..13]> <;>
<LastZReportNumber[1..5]> <;> <LastZReportDate "DD-MM-YYYY HH:MM"> <;>
<BelongToDepNumber[1..3]>

FPR operation: Provides information about the registers of the specified article.

Input data:

PLUNum (PLU Number) 5 symbols for article number in format ####

Output data:

PLUNum 5 symbols for article number format #####

PLUName 20 symbols for article name Up to 11 symbols for article price

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'B' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

Turnover Up to 13 symbols for turnover by this article

QuantitySold Up to 13 symbols for sold quantity

LastZReportNumber Up to 5 symbols for the number of last Z Report

LastZReportDate 16 symbols for date and hour on last Z Report in format

DD-MM-YYYY HH:MM

BelongToDepNumber BelongToDepNumber + 80h, 1 symbol for article department

attachment, formed in the following manner:

BelongToDepNumber[HEX] + 80h example: Dep01 = 81h, Dep02

= 82h ... Dep19 = 93h

Department range from 1 to 127

zfpdef: ReadPLU_Old(PLUNum)

2.5.19. Command: 6Bh / k – Read article registers, Option " (All)

input: <*PLUNum*[5]> <;> <*Option*[""]>

output: <PLUNum[5]> <;> <Option[""]> <;> <PLUName[34]> <;> <Price[1..10]> <;>

 $<\!\!FlagsPricePLU[1]\!\!><\!\!;><\!\!OptionVATClass[1]\!\!><\!\!;><\!\!BelongToDepNumber[1..3]\!\!><\!\!;><\!\!Continuous (1..3)\!\!><\!\!Continuous (1..3)\!\!>$

<TurnoverAmount[1..13]> <;> <SoldQuantity[1..13]> <;> <StornoAmount[1..13]> <;>

<StornoQuantity[1..13]> <;> <LastZReportNumber[1..5]> <;>

<LastZReportDate "DD-MM-YYYY HH:MM"> <;> <Available Quantity[1..11]> <;>

<Barcode[13]>

FPR operation: Provides information about all the registers of the specified article.

Input data:

PLUNum (PLU Number) 5 symbols for article number with leading zeroes in format: #####

Option One symbol with value "" quotation mark

Output data:

PLUNum 5 symbols for article number with leading zeroes in format: #####

Option One symbol with value ""

PLUName 34 symbols for article name, new line=0x7C.

Price Up to 10 symbols for article price

FlagsPricePLU 1 symbol for flags = 0x80 + FlagSinglTr + FlagQTY + OptionPrice

Where

OptionPrice:

0x00 - for free price is disable valid only programmed price

0x01 - for free price is enable

0x02 - for limited price

FlagQTY:

0x00 - for availability of PLU stock is not monitored

0x04 - for disable negative quantity 0x08 - for enable negative quantity

FlagSingleTr:

0x00 – no single transaction 0x10 – single transaction is active

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'B' – VAT Class 1 - 'B' – VAT Class 2 - 'I' – VAT Class 3 - 'I' – VAT Class 4 - 'E' – VAT Class 5 - 'X' – VAT Class 6 - '3' – VAT Class 7

- '*' - Forbidden

BelongToDepNumber BelongToDepNumber + 80h, 1 symbol for PLU department

attachment = 0x80 ... 0x93 Department range from 1 to 127

TurnoverAmount

SoldQuantity

Up to 13 symbols for PLU accumulated turnover
Up to 13 symbols for Sales quantity of the article
Up to 13 symbols for accumulated storno amount
StornoQuantity
Up to 13 symbols for accumulated storno quantity

LastZReportNumber Up to 5 symbols for the number of the last article report with zeroing 16 symbols for the date and time of the last article report with zeroing

in format *DD-MM-YYYY HH:MM*

Available Quantity (Available Quantity) Up to 11 symbols for quantity in stock

Barcode 13 symbols for article barcode

zfpdef: ReadPLUallData(PLUNum)

2.5.20. Command: 6Bh / k – Read article registers, Option 1 (General)

input: <*PLUNum*[5]> <;> <*Option*['1']>

output: <PLUNum[5]> <;> <Option['1']> <;> <PLUName[34]> <;> <Price[1..10]> <;>

<OptionPrice[1]> <;> <OptionVATClass[1]> <;> <BelongToDepNumber[1..3]> <;>

<TurnoverAmount[1..13]> <;> <SoldQuantity[1..13]> <;> <StornoAmount[1..13]> <;>

<StornoQuantity[1..13]> <;> <LastZReportNumber[1..5]> <;>

<LastZReportDate "DD-MM-YYYY HH:MM"> <;> <SingleTransaction[1]>

FPR operation: Provides information about the general registers of the specified article.

Input data :

PLUNum (PLU No) 5 symbols for article number with leading zeroes in format: #####

Option One symbol with value '1'

Output data:

PLUNum 5 symbols for article number with leading zeroes in format #####

Option One symbol with value '1'

PLUName 34 symbols for article name, new line=0x7C.

Price Up to 10 symbols for article price OptionPrice 1 symbol for price flag with next value:

- '0'- Free price is disable valid only programmed price

- '1'- Free price is enable

- '2'- Limited price

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'Б' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

BelongToDepNumber BelongToDepNumber + 80h, 1 symbol for PLU department

attachment= 0x80 ... 0x93

Department range from 1 to 127

TurnoverAmount

SoldQuantity

StornoAmount

Up to 13 symbols for PLU accumulated turnover
Up to 13 symbols for Sales quantity of the article
Up to 13 symbols for accumulated storno amount
StornoQuantity

Up to 13 symbols for accumulated storno quantity

LastZReportNumber Up to 5 symbols for the number of the last article report with zeroing

LastZReportDate 16 symbols for the date and time of the last article report with zeroing in

format DD-MM-YYYY HH:MM

SingleTransaction 1 symbol with value:

- '0' - Inactive, default value

- '1' - Active Single transaction in receipt

zfpdef: ReadPLUgeneral(PLUNum)

2.5.21. Command: 6Bh / k – Read article registers, Option 2 (Quantity)

input: <PLUNum[5]> <;> <Option['2']>

output:<PLUNum[5]> <;> <Option['2']> <;> <AvailableQuantity[1..13]> <;>

<OptionQuantityType[1]>

FPR operation: Provides information about the quantity registers of the specified

article.

Input data:

PLUNum (PLU Number) 5 symbols for article number with leading zeroes in format: #####

Option One symbol with value 2

Output data:

PLUNum 5 symbols for article number with leading zeroes in format #####

Option One symbol with value 2

AvailableQuantity Up to 13 symbols for quantity in stock

OptionQuantityType 1 symbol for Quantity flag with next value:

- '0'- Availability of PLU stock is not monitored

- '1'- Disable negative quantity- '2'- Enable negative quantity

zfpdef: ReadPLUqty(PLUNum)

2.5.22. Command: 6Bh / k – Read article registers, Option 3 (Barcode)

input: <*PLUNum*[5]> <;> <*Option*['3']>

output:<*PLUNum*[5]> <;> <*Option*['3']> <;> <*Barcode*[13]>

FPR operation: Provides information about the barcode of the specified article.

Input data:

PLUNum (PLU Number) 5 symbols for article number with leading zeroes in format: #####

Option One symbol with value 3

Output data:

PLUNum 5 symbols for article number with leading zeroes in format #####

Option One symbol with value 3
Barcode 13 symbols for article barcode

zfpdef: ReadPLUbarcode(PLUNum)

2.5.23. Command: 6Bh / k - Read article registers, Option 4 (Price)

input: <*PLUNum*[5]> <;> <*Option*['4']>

output:<*PLUNum*[5]> <;> <*Option*['4']> <;> <*Price*[1..10]> <;> <*OptionPrice*[1]>

FPR operation: Provides information about the price and price type of the specified

article.

Input data:

PLUNum (PLU Number) 5 symbols for article number with leading zeroes in format: #####

Option One symbol with value 4

Output data:

PLUNum 5 symbols for article number with leading zeroes in format #####

Option One symbol with value 4

Price Up to 10 symbols for article price OptionPrice 1 symbol for price flag with next value:

- '0'- Free price is disable valid only programmed price

- '1'- Free price is enable

- '2'- Limited price

zfpdef: ReadPLUprice(PLUNum)

2.5.24. Command: 6Ch / I - Print Logo

input: <Number[1..2]>

output: ACK

FPR operation: Prints the programmed graphical logo with the stated number.

Input data :

Number Number of logo to be printed. If missing, prints logo with number 0

Output data : n. a.

zfpdef:PrintLogo(Number)

2.5.25. Command: 52h / R - Read customer database

input: <Option['R']> <;> <CustomerNum[4]>

output: <CustomerNum[4]> <;> <CustomerCompanyName[26]> <;>

<CustomerFullName[16]> <;> <VATNumber[13]> <;> <UIC[13]> <;> <Address[30]> <;> <UICType[1]>

FPR Operation: Provide information for specified customer from FD data base.

Input data:

Option 1 symbol 'R'

Customer Number) 4 symbols for customer number in format ####

Output data:

Customer Number) 4 symbols for customer number in format ####

CustomerCompanyName (Company name) 26 symbols for customer name CustomerFullName (Buyer Name) 16 symbols for Buyer name VATNumber 13 symbols for VAT number on customer

UIC 13 symbols for customer Unique Identification Code

Address 30 symbols for address on customer

UICType 1 symbol for type of Unique Identification Code:

- '0' - Bulstat - '1' - EGN

'2' – Foreigner Number'3' – NRA Official Number

zfpdef: ReadCustomerData(CustomerNum)

2.5.26. Command: 4Fh / O – Read parameter for printing or not printing of automatic Z-daily report

input: <*'H'*> <*;*> <*'R'*>

output: <'H'> <;> <'R'> <;> < OptionDailyReport[1]>

FPR Operation: Provide information about automatic daily report printing or not

printing parameter

Input data:

'H' 1 symbol with value 'H' 'R' 1 symbol with value 'R'

Output data: n. a.

'H' 1 symbol with value 'H'
'R' 1 symbol with value 'R'
OptionDailyReport 1 symbol with value:

- '1' – Print automatic Z report- '0' – Generate automatic Z report

zfpdef: ReadDailyReportParameter()

2.5.27. Command: 4Fh / O - Read parameter for NBL monitoring

input: <'N'> <;> <'R'>

output: <'N'> <;> <'R'> <;> <OptionNBL[1]>

FPR Operation: Provide information about NBL parameter to be monitored by the

fiscal device.

Input data:

'N' 1 symbol with value 'N' 'R' 1 symbol with value 'R'

Output data:

'N' 1 symbol with value 'N' 'R' 1 symbol with value 'R' OptionNBL 1 symbol with value:

- '0' - No - '1' - Yes

zfpdef: ReadNBLParameter(OptionNBL)

2.5.28. Command: 4Fh / O – Read weight barcode format

input: <*'B'*> <*;*> <*'R'*>

output: <'B'> <;> <'R'> <;> <OptionBarcodeFormat[1]>

FPR Operation:Provide information about weight barcode format.

Input data:

'B' 1 symbol with value 'B' 'R' 1 symbol with value 'R'

Output data:

'B'
'R'

OptionBarcodeFormat

1 symbol with value 'B'
1 symbol with value 'R'
1 symbol with value:
- '0' – NNNNcWWWWW

- '1' – NNNNWWWWW

zfpdef: ReadWeightBarcodeFormat(OptionBarcodeFormat)

2.5.29. Command: 4Fh / O – Read parameter for automatic transfer available amounts (new ECR Only)

input: <'A'> <;> <'R'>

output: <'A'> <;> <'R'> <;> <OptionTransferAmount[1]>

FPR Operation: Provide information about parameter for automatic transfer of daily available amounts.

Input data:

'A' 1 symbol with value 'A' 'R' 1 symbol with value 'R'

Output data:

'A'
'R'
1 symbol with value 'A'
'R'
2 ptionTransferAmount
1 symbol with value 'R'
1 symbol with value:

- '0' - No - '1' - Yes

zfpdef: ReadTransferAmountParam_RA(OptionTransferAmount)

2.6. RECEIPT OPERATIONS COMMANDS

These commands are used mainly for FD sales registration. The group also includes some auxiliary commands providing information for the current receipt as well as commands for RA and PO amounts.

2.6.1. Command: 2Eh / . – Open Non-fiscal receipt

input: <OperNum[1..2]> <;> <OperPass[6]> {<;> <Reserved['0']> <;>
<NonFiscalPrintType[1]>}

output: ACK

FPR operation: Opens a non-fiscal receipt assigned to the specified operator

number, operator password and print type.

Input data :

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's

number

OperPass (Operator Password) 6 symbols for operator's password

Reserved 1 symbol with value '0'

NonFiscalPrintType (Printing type) 1 symbol with value:

'0' – Step by step printing'1' – Postponed Printing

Output data: n. a.

zfpdef: OpenNonFiscalReceipt(OperNum, OperPass, NonFiscalPrintType)

2.6.2. Command: 2Fh / / - Close Non-fiscal receipt

input: n. a. output: ACK

FPR operation: Closes the non-fiscal receipt.

Input data : n. a. Output data : n. a.

zfpdef: CloseNonFiscalReceipt()

2.6.3. Command: 30h / 0 - Open Fiscal sales receipt

input:<OperNum[1..2]> <;> <OperPass[6]> <;> <ReceiptFormat[1]> <;> <PrintVAT[1]> <;> <FiscalRcpPrintType[1]> {<'\$'> <UniqueReceiptNumber[24]>}

output: ACK

FPR operation: Opens a fiscal receipt assigned to the specified operator number and operator password, parameters for receipt format, print VAT, printing type and unique receipt number.

Input data:

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's number

OperPass (Operator Password) 6 symbols for operator's password

ReceiptFormat (Format) 1 symbol with value:

- '1' - Detailed - '0' - Brief

PrintVAT (VAT included in the receipt) 1 symbol with value:

- '1' – Yes - '0' – No

FiscalRcpPrintType (Printing type) 1 symbol with value:

'0' – Step by step printing
'2' – Postponed printing
'4' – Buffered printing

UniqueReceiptNumber Up to 24 symbols for unique receipt number.

NRA format: XXXXXXXXX-ZZZZ-YYYYYYY where:

* XXXXXXXX – 8 symbols [A-Z, a-z, 0-9] for individual device number,

* ZZZZ – 4 symbols [A-Z, a-z, 0-9] for code of the operator,
* YYYYYYY – 7 symbols [0-9] for next number of the receipt

Output data: n. a.

zfpdef: OpenReceipt(OperNum, OperPass, RcpFormat, PrintVAT, FiscalRcpPrintType, UniqueReceiptNumber)

2.6.4. Command: 30h / 0 - Open ELECTRONIC Fiscal sales receipt

input:<OperNum[1..2]> <;> <OperPass[6]> <;> <ReceiptFormat[1]> <;> <PrintVAT[1]> <;> <FiscalRcpPrintType['8']> {<'\$'> <UniqueReceiptNumber[24]>}

output: ACK

FPR operation: Opens an postponed electronic fiscal receipt with 1 minute timeout assigned to the specified operator number and operator password, parameters for receipt format, print VAT, printing type and unique receipt number.

Input data :

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's number

OperPass (Operator Password) 6 symbols for operator's password

ReceiptFormat (Format) 1 symbol with value:

- '1' - Detailed - '0' - Brief

PrintVAT (VAT included in the receipt) 1 symbol with value:

- '1' – Yes - '0' – No

FiscalRcpPrintType 1 s

1 symbol with value '8' for Postponed printing of electronic receipt

UniqueReceiptNumber Up to 24 symbols for unique receipt number.

NRA format: XXXXXXXXX-ZZZZ-YYYYYYY where:

* XXXXXXXX – 8 symbols [A-Z, a-z, 0-9] for individual device number,

* ZZZZ – 4 symbols [A-Z, a-z, 0-9] for code of the operator,
* YYYYYYY – 7 symbols [0-9] for next number of the receipt

Output data: n. a.

zfpdef: OpenElectronicReceipt(OperNum, OperPass, RcpFormat, PrintVAT,UniqueReceiptNumber)

2.6.5. Command: 30h / 0 - Open Fiscal storno receipt

input:<OperNum[1..2]> <;> <OperPass[6]> <;> <ReceiptFormat[1]> <;> <PrintVAT[1]> <;> <StornoRcpPrintType[1]> <;> <StornoReason[1]> <;> <RelatedToRcpNum[1..6]> <;> <RelatedToRcpDateTime "DD-MM-YY HH:MM:SS"> <;> <FMNum[8]> {<;> <RelatedToURN[24]>}

output: ACK

FPR operation: Open a fiscal storno receipt assigned to the specified operator number and operator password, parameters for receipt format, print VAT, printing type and parameters for the related storno receipt.

Input data :

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's

number

OperPass (Operator Password) 6 symbols for operator's password

ReceiptFormat (Format) 1 symbol with value:

- '1' - Detailed - '0' - Brief

PrintVAT (VAT included in the receipt) 1 symbol with value:

- '1' – Yes - '0' – No

StornoRcpPrintType (Printing type) 1 symbol with value:

'@' – Step by step printing'B' – Postponed Printing'D' – Buffered Printing

StornoReason 1 symbol for reason of storno operation with value:

- '0' - Operator error

- '1' - Goods Claim or Goods return

- '2' - Tax relief

RelatedToRcpNum (Receipt number) Up to 6 symbols for issued receipt number

RelatedToRcpDateTime (Receipt Date and Time) 17 symbols for Date and Time of the issued receipt

in format DD-MM-YY HH:MM:SS

FMNum 8 symbols for number of the Fiscal Memory

RelatedToURN Up to 24 symbols for the issed receipt unique receipt number.

NRA format: XXXXXXXX-ZZZZ-YYYYYYY where:

* XXXXXXXX – 8 symbols [A-Z. a-z. 0-9] for individual device number.

* ZZZZ – 4 symbols [A-Z, a-z, 0-9] for code of the operator,
* YYYYYYY – 7 symbols [0-9] for next number of the receipt

Output data: n. a.

Note:

If Postponed printing is enabled after opened fiscal receipt, all the next commands will be executed but won't be printed immediately. The data for whole receipt is stored to be printed up to AS sent information for receipt closure. If up to 5 sec timeout no command ECR closing the receipt <code>zfpdef:</code> <code>OpenStornoReceipt(OperNum, OperPass, ReceiptFormat, PrintVAT, StornoRepPrintType, StornoReason, RelatedToRcpNum, RelatedToRcpDateTime, FMNum, RelatedToURN)</code>

2.6.6. Command: 30h / 0 – Open Fiscal Invoice receipt with free customer data

input: <OperNum[1..2]> <;> <OperPass[6]> <;> <reserved['0']> <;> <InvoicePrintType[1]> <;> <Recipient[26]> <;> <Buyer[16]> <;> <VATNumber[13]> <;> <UIC[13]> <;> <Address[30]> <;> <UICType[1]> { <'\$'> <UniqueReceiptNumber[24]>}

output: ACK

FPR operation: Opens a fiscal invoice receipt assigned to the specified operator number and operator password with free info for customer data. The Invoice receipt can be issued only if the invoice range (start and end numbers) is set.

Input data:

OperNum (Operator Number) Symbol from 1 to 20 corresponding to operator's number

OperPass (Operator Password) 6 symbols for operator's password

reserved 1 symbol with value '0' reserved 1 symbol with value '0'

InvoicePrintType (Printing type) 1 symbol with value:

'1' – Step by step printing
'3' – Postponed Printing
'5' – Buffered Printing

Recipient 26 symbols for Invoice recipient Buyer 16 symbols for Invoice buyer

VATNumber 13 symbols for customer Fiscal number

U/C 13 symbols for customer Unique Identification Code

Address 30 symbols for Address

UICType 1 symbol for type of Unique Identification Code:

- '0' - Bulstat - '1' - EGN

- '2' – Foreigner Number- '3' – NRA Official Number

UniqueReceiptNumber Up to 24 symbols for unique receipt number.

NRA format: XXXXXXXXX-ZZZZ-YYYYYYY where:

* XXXXXXXX – 8 symbols [A-Z, a-z, 0-9] for individual device number,

* ZZZZ – 4 symbols [A-Z, a-z, 0-9] for code of the operator, * YYYYYY – 7 symbols [0-9] for next number of the receipt

Output data: n. a.

Note:

If Postponed printing is enabled after opened fiscal receipt, all the next commands will be executed but won't be printed immediately. The data for whole receipt is stored to be printed up to AS sent information for receipt closure. If up to 5 sec timeout no command ECR closing the receipt **zfpdef**: OpenInvoiceWithFreeCustomerData(OperNum, OperPass, InvoicePrintType, Recipient, Buyer, UIC, IDNumber, Address, UICType, UniqueReceiptNumber)

2.6.7. Command: 30h / 0 – Open ELECTRONIC Fiscal Invoice receipt with free customer data

input: <OperNum[1..2]> <;> <OperPass[6]> <;> <reserved['0']> <;> <InvoicePrintType['9']> <;> <Recipient[26]> <;> <Buyer[16]> <;> <VATNumber[13]> <;> <UIC[13]> <;> <Address[30]> <;> <UICType[1]> { <'\$'> <UniqueReceiptNumber[24]>}

output: ACK

FPR operation: Opens an electronic fiscal invoice receipt with 1 minute timeout assigned to the specified operator number and operator password with free info for customer data. The Invoice receipt can be issued only if the invoice range (start and end numbers) is set.

Input data :

OperNum (Operator Number) Symbol from 1 to 20 corresponding to operator's number

OperPass (Operator Password) 6 symbols for operator's password

reserved 1 symbol with value '0' reserved 1 symbol with value '0'

InvoicePrintType 1 symbol with value '9' for Postponed Printing of electronic receipt

Recipient 26 symbols for Invoice recipient Buyer 16 symbols for Invoice buyer

VATNumber 13 symbols for customer Fiscal number

UIC 13 symbols for customer Unique Identification Code

Address 30 symbols for Address

UICType 1 symbol for type of Unique Identification Code:

- '0' - Bulstat - '1' - EGN

'2' – Foreigner Number'3' – NRA Official Number

UniqueReceiptNumber Up to 24 symbols for unique receipt number.

NRA format: XXXXXXXXX-ZZZZ-YYYYYYY where:

* XXXXXXXX – 8 symbols [A-Z, a-z, 0-9] for individual device number,

ZZZZ – 4 symbols [A-Z, a-z, 0-9] for code of the operator,
 YYYYYYY – 7 symbols [0-9] for next number of the receipt

Output data: n. a.

Note:

If Postponed printing is enabled after opened fiscal receipt, all the next commands will be executed but won't be printed immediately. The data for whole receipt is stored to be printed up to AS sent information for receipt closure. If up to 5 sec timeout no command ECR closing the receipt **zfpdef**: OpenElectronicInvoiceWithFreeCustomerData(OperNum, OperPass, Recipient, Buyer, UIC, IDNumber, Address, UICType, UniqueReceiptNumber)

2.6.8. Command: 30h / 0 – Open Fiscal Invoice Credit Note receipt with free customer data

 $\label{eq:input: operNum[1..2] < :> < OperPass[6] > < :> < reserved['0'] > < :> < reserved['0'] > < :> < InvoiceCreditNotePrintType[1] > < :> < Recipient[26] > < :> < Buyer[16] > < :> < VATNumber[13] > < :> < UIC[13] > < :> < Address[30] > < :> < UICType[1] > < :> < StornoReason[1] > < :> < RelatedToInvoiceNum[10] > < :> < RelatedToInvoiceDateTime"DD-MM-YY HH:MM:SS" > < :> < RelatedToRcpNum[1..6] > < :> < FMNum[8] > { < :> < RelatedToURN[24] > }$

output: ACK

FPR operation: Opens a fiscal invoice credit note receipt assigned to the specified operator number and operator password with free info for customer data. The Invoice receipt can be issued only if the invoice range (start and end numbers) is set.

Input data :

OperNum (Operator Number) Symbol from 1 to 20 corresponding to operator's

number

OperPass (Operator Password) 6 symbols for operator's password

reserved 1 symbol with value '0' reserved 1 symbol with value '0'

InvoiceCreditNotePrintType (Printing type) 1 symbol with value:

'A' – Step by step printing
'C' – Postponed Printing
'E' – Buffered Printing

Recipient 26 symbols for Invoice recipient Buyer 16 symbols for Invoice buyer

VATNumber 13 symbols for customer Fiscal number

UIC 13 symbols for customer Unique Identification Code

Address 30 symbols for Address

UICType 1 symbol for type of Unique Identification Code:

- '0' - Bulstat - '1' - EGN

- '2' – Foreigner Number - '3' – NRA Official Number

StornoReason 1 symbol for reason of storno operation with value:

- '0' - Operator error

- '1' - Goods Claim or Goods return

- '2' - Tax relief

RelatedToInvoiceNum 10 symbols for issued invoice number

RelatedToInvoiceDateTime 17 symbols for issued invoice date and time in format

DD-MM-YY HH:MM:SS

RelatedToRcpNum (Receipt number) Up to 6 symbols for issued receipt number

FMNum 8 symbols for number of the Fiscal Memory

RelatedToURN Up to 24 symbols for the issed invoice receipt unique receipt number.

NRA format: XXXXXXXXX-ZZZZ-YYYYYYY where:

* XXXXXXXX – 8 symbols [A-Z, a-z, 0-9] for individual device

number,

* ZZZZ – 4 symbols [A-Z, a-z, 0-9] for code of the operator, * YYYYYY – 7 symbols [0-9] for next number of the receipt

Output data: n. a.

Note:

If Postponed printing is enabled after opened fiscal receipt, all the next commands will be executed but won't be printed immediately. The data for whole receipt is stored to be printed up to AS sent information for receipt closure. If up to 5 sec timeout no command ECR closing the receipt **zfpdef**: OpenCreditNoteWithFreeCustomerData(OperNum, OperPass, InvoiceCreditNotePrintType, Recipient, Buyer, UIC, IDNumber, Address, UICType, RelatedToInvoiceNum, RelatedToInvoiceDateTime, RelatedToRcpNum, FMNum, RelatedToURN)

2.6.9. Command: 30h / 0 – Open Fiscal Invoice receipt with customer data from FD database

input: <OperNum[1..2]> <;> <OperPass[6]> <;> <reserved['0']> <;> <InvoicePrintType[1]> <;> <CustomerNum[5]> { <'\$'> <UniqueReceiptNumber[24]> }

output: ACK

FPR operation: Opens a fiscal invoice receipt assigned to the specified operator number and operator password with internal DB info for customer data. The Invoice receipt can be issued only if the invoice range (start and end numbers) is set.

Input data :

OperNum (Operator Number) Symbol from 1 to 20 corresponding to operator's

number

OperPass (Operator Password) 6 symbols for operator's password

reserved 1 symbol with value '0' reserved 1 symbol with value '0'

InvoicePrintType (Printing type) 1 symbol with value:

'1' – Step by step printing
'3' – Postponed Printing
'5' – Buffered Printing

CustomerNum Symbol '#' and following up to 4 symbols for related customer ID number

corresponding to the FD database

UniqueReceiptNumber Up to 24 symbols for unique receipt number.

NRA format: XXXXXXXXX-ZZZZ-YYYYYYY where:

* XXXXXXXX – 8 symbols [A-Z, a-z, 0-9] for individual device number,

* ZZZZ – 4 symbols [A-Z, a-z, 0-9] for code of the operator,
* YYYYYYY – 7 symbols [0-9] for next number of the receipt

Output data: n. a.

Note:

If Postponed printing is enabled after opened fiscal receipt, all the next commands will be executed but won't be printed immediately. The data for whole receipt is stored to be printed up to AS sent information for receipt closure. If up to 5 sec timeout no command ECR closing the receipt **zfpdef**: *OpenInvoiceWithFDCustomerDB*(OperNum, OperPass, *InvoicePrintType*, *CustomerNum*, *UniqueReceiptNumber*)

2.6.10. Command: 30h / 0 – Open ELECTRONIC Fiscal Invoice receipt with customer data from FD database

input: <OperNum[1..2]> <;> <OperPass[6]> <;> <reserved['0']> <;> <InvoicePrintType['9']> <;> <CustomerNum[5]> { <'\$'> <UniqueReceiptNumber[24]> }
 output: ACK

FPR operation: Opens an electronic fiscal invoice receipt with 1 minute timeout assigned to the specified operator number and operator password with internal DB info for customer data. The Invoice receipt can be issued only if the invoice range (start and end numbers) is set.

Input data :

OperNum (Operator Number) Symbol from 1 to 20 corresponding to operator's

number

OperPass (Operator Password) 6 symbols for operator's password

reserved 1 symbol with value '0' reserved 1 symbol with value '0'

InvoicePrintType

1 symbol with value '9' for Postponed Printing of electronic receipt

CustomerNum

Symbol '#' and following up to 4 symbols for related customer ID number

corresponding to the FD database

UniqueReceiptNumber Up to 24 symbols for unique receipt number.

NRA format: XXXXXXXXX-ZZZZ-YYYYYYY where:

* XXXXXXXX – 8 symbols [A-Z, a-z, 0-9] for individual device number,

* ZZZZ – 4 symbols [A-Z, a-z, 0-9] for code of the operator,
* YYYYYYY – 7 symbols [0-9] for next number of the receipt

Output data: n. a. Note:

If Postponed printing is enabled after opened fiscal receipt, all the next commands will be executed but won't be printed immediately. The data for whole receipt is stored to be printed up to AS sent information for receipt closure. If up to 5 sec timeout no command ECR closing the receipt **zfpdef**: OpenElectronicInvoiceWithFDCustomerDB(OperNum, OperPass,CustomerNum, UniqueReceiptNumber)

2.6.11. Command: 30h / 0 – Open Fiscal Invoice Credit Note receipt with customer data from FD database

 $\label{eq:input:operNum} \textbf{input:} < OperNum[1..2] > <; > < OperPass[6] > <; > < reserved['0'] > <; > < InvoiceCreditNotePrintType[1] > <; > < CustomerNum[5] > <; > < StornoReason[1] > <; > < RelatedToInvoiceNum[10] > <; > < RelatedToInvoiceDateTime "DD-MM-YY HH:MM:SS" > <; > < RelatedToRcpNum[1..6] > <; > < FMNum[8] > { <; > < RelatedToURN[24] > }$

output: ACK

FPR operation: Opens a fiscal invoice credit note receipt assigned to the specified operator number and operator password with internal DB info for customer data. The Invoice receipt can be issued only if the invoice range (start and end numbers) is set.

Input data:

OperNum (Operator Number) Symbol from 1 to 20 corresponding to operator's

number

OperPass (Operator Password) 6 symbols for operator's password

reserved 1 symbol with value '0' reserved 1 symbol with value '0'

InvoiceCreditNotePrintType (Printing type) 1 symbol with value:

- 'A' – Step by step printing
- 'C' – Postponed Printing
- 'E' – Buffered Printing

CustomerNum Symbol '#' and following up to 4 symbols for related customer ID

number corresponding to the FD database

StornoReason 1 symbol for reason of storno operation with value:

- '0' - Operator error

- '1' - Goods Claim or Goods return

- '2' - Tax relief

RelatedToInvoiceNum 10 symbols for issued invoice number

RelatedToInvoiceDateTime 17 symbols for issued invoice date and time in format

DD-MM-YY HH:MM:SS

RelatedToRcpNum (Receipt number) Up to 6 symbols for issued receipt number

FMNum 8 symbols for number of the Fiscal Memory

RelatedToURN Up to 24 symbols for the issed invoice receipt unique receipt number.

NRA format: XXXXXXXXX-ZZZZ-YYYYYYY where:

* XXXXXXXX – 8 symbols [A-Z, a-z, 0-9] for individual device number,

* ZZZZ – 4 symbols [A-Z, a-z, 0-9] for code of the operator,
* YYYYYYY – 7 symbols [0-9] for next number of the receipt

Output data: n. a.

Note:

If Postponed printing is enabled after opened fiscal receipt, all the next commands will be executed but won't be printed immediately. The data for whole receipt is stored to be printed up to AS sent information for receipt closure. If up to 5 sec timeout no command ECR closing the receipt **zfpdef**: OpenCreditNoteWithFDCustomerDB(OperNum, OperPass, InvoiceCreditNotePrintType, CustomerNum, RelatedToInvoiceNum, RelatedToInvoiceDateTime, RelatedToRcpNum, FMNum, RelatedToURN)

2.6.12. Command: 31h / 1 – Sell/Correction of article belonging to VAT class definition

input: <NamePLU[36]> <;> <OptionVATClass[1]> <;> <Price[1..10]> {<'*'> <Quantity[1..10]>} {<','> <DiscAddP[1..7]>} {<':'> <DiscAddV[1..8]>}

output: ACK

FPR operation: Register the sell (for correction use minus sign in the price field) of article with specified name, price, quantity, VAT class and/or discount/addition on the transaction.

Input data :

NamePLU (PLU Name) 36 symbols for article's name. 34 symbols are printed on paper.

Symbol 0x7C '|' is new line separator.

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'Б' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

Price Up to 10 symbols for article's price. Use minus sign '-' for correction

1 symbol '*' indicating the presence of quantity field

Quantity Up to 10 symbols for quantity

',' 1 symbol ',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) Up to 7 symbols for percentage of discount/addition.

Use minus sign '-' for discount

':' 1 symbol ',' indicating the presence of value discount/addition field DiscAddV (Discount/Addition Value) Up to 8 symbols for value of discount/addition.

Use minus sign '-' for discount

Output data : n. a.

Notes:

The quantity fields are not obligatory. If no value is stated for them the FD executed the command for a default quantity of 1.000

The discount/addition fields are not obligatory. The discount/addition must be in percents and is determined from the presence or absence of the '-' symbol.

zfpdef: SellPLUwithSpecifiedVAT(NamePLU, OptionVATClass, Price, Quantity, DiscAddP, DiscAddV)

2.6.13. Command: 31h / 1 – Sell/Correction of article belonging to department

input: <NamePLU[36]> <;> <reserved[' ']> <;> <Price[1..10]> {<'*'>
<Quantity[1..10]>} {<','> <DiscAddP[1..7]>} {<':'> <DiscAddV[1..8]>} {<'!'> <DepNum[1..3]>}
output: ACK

FPR operation: Register the sell (for correction use minus sign in the price field) of article belonging to department with specified name, price, quantity and/or discount/addition on the transaction. The VAT of article got from department to which article belongs.

Input data:

NamePLU (PLU Name) 36 symbols for article's name. 34 symbols are printed on paper.

Symbol 0x7C '|' is new line separator.

reserved 1 symbol with value "space"

Price Up to 10 symbols for article's price. Use minus sign '-' for correction

"" 1 symbol "" indicating the presence of quantity field

Quantity Up to 10 symbols for quantity

',' 1 symbol ',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) Up to 7 symbols for percentage of discount/addition.

Use minus sign '-' for discount

1 symbol ',' indicating the presence of value discount/addition field

DiscAddV (Discount/Addition Value) Up to 8 symbols for value of discount/addition.

Use minus sign '-' for discount

'!' 1 symbol '!' indicating the presence of departament

DepNum + 80h (Department Number) 1 symbol for article department

attachment, formed in the following manner; example: Dep01=81h,

Dep02=82h ... Dep19=93h
Department range from 1 to 127

Output data : n. a.

Notes:

The quantity fields are not obligatory. If no value is stated for them the FD executed the command for a default quantity of 1.000

The discount/addition fields are not obligatory. The discount/addition must be in percents and is determined from the presence or absence of the '-' symbol.

zfpdef: SellPLUfromDep(NamePLU, Price, Quantity, DiscAddP, DiscAddV, DepNum)

2.6.14. Command: 31h / 1 – Sell/Correction of article with specified VAT belonging to department

input: <NamePLU[36]> <;> <OptionVATClass[1]> <;> <Price[1..10]> {<'*'>
<Quantity[1..10]>} {<','> <DiscAddP[1..7]>} {<':'> <DiscAddV[1..8]>} {<'!'> <DepNum[1..3]>}

output: ACK

FPR operation: Register the sell (for correction use minus sign in the price field) of article with specified VAT. If department is present the relevant accumulations are performed in its registers.

Input data:

NamePLU (PLU Name) 36 symbols for article's name. 34 symbols are printed on paper.

Symbol 0x7C '|' is new line separator.

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'Б' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

Price Up to 10 symbols for article's price. Use minus sign '-' for correction

"" 1 symbol '*' indicating the presence of quantity field

Quantity Up to 10 symbols for quantity

',' 1 symbol ',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) Up to 7 symbols for percentage of discount/addition.

Use minus sign '-' for discount

':' 1 symbol ',' indicating the presence of value discount/addition field DiscAddV (Discount/Addition Value) Up to 8 symbols for value of discount/addition.

Use minus sign '-' for discount

'!' 1 symbol '!' indicating the presence of departament

DepNum + 80h (Department Number) 1 symbol for article department

attachment, formed in the following manner; example: Dep01 = 81h,

Dep02 = 82h ... Dep19 = 93h Department range from 1 to 127

Output data : n. a.

Notes:

The quantity fields are not obligatory. If no value is stated for them the FD executed the command for a default quantity of 1.000

The discount/addition fields are not obligatory. The discount/addition must be in percents and is determined from the presence or absence of the '-' symbol.

zfpdef: SellPLUwithSpecifiedVATfromDep(NamePLU, OptionVATClass, Price, Quantity, DiscAddP, DiscAddV, DepNum)

2.6.15. Command: 32h / 2 - Sell/Correction of article from FD database

input: <OptionSign[1]> <PLUNum[5]> {<'\$'> <Price[1..8]>} {<'*'> <Quantity[1..10]>}
{<','> <DiscAddP[1..7]>} {<':'> <DiscAddV[1..8]>}

output: ACK

FPR operation: Register the sell or correction with specified quantity of article from the internal FD database. The FD will perform a correction operation only if the same quantity of the article has already been sold.

Input data :

OptionSign (Sale/Correction) 1 symbol with optional value:

- '+' -Sale - '-' - Correction

PLUNum (PLU Number) 5 symbols for PLU number of FD's database in format #####

'\$' 1 symbol '\$' indicating the presence of price

Price Up to 10 symbols for sale price

1 symbol '*' indicating the presence of quantity field

Quantity Up to 10 symbols for article's quantity sold

1 symbol ',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) Up to 7 for percentage of discount/addition. Use minus

sign '-' for discount

':' 1 symbol ',' indicating the presence of discount/addition field

DiscAddV (Discount/Addition Value) Up to 8 symbolsfor percentage of discount/addition.

Use minus sign '-' for discount

Output data: n. a.

zfpdef: SellPLUFromFD DB(OptionSign, PLUNum, Price, Quantity, DiscAddP, DiscAddV)

2.6.16. Command: 33h / 3 - Subtotal

input: <OptionPrinting[1]> <;> <OptionDisplay[1]> {<':'> <DiscAddV[1..8]>} {<','> <DiscAddP[1..7]>}

output:<SubtotalValue[1..10]>

FPR operation: Calculate the subtotal amount with printing and display visualization options. Provide information about values of the calculated amounts. If a percent or value discount/addition has been specified the subtotal and the discount/addition value will be printed regardless the parameter for printing.

Input data:

OptionPrinting 1 symbol with value:

- '1' – Yes - '0' – No

OptionDisplay 1 symbol with value:

- '1' – Yes - '0' – No

':' 1 symbol ':' indicating the presence of value discount/addition field DiscAddV (Discount/Addition Value) Up to 8 symbols for the value of the

discount/addition. Use minus sign '-' for discount

',' 1 symbol ',' indicating the presence of percent discount/addition field DiscAddP (Discount/Addition %) Up to 7 symbols for the percentage value of the

discount/addition. Use minus sign '-' for discount

Output data:

Subtotal Value Up to 10 symbols for the value of the subtotal amount

Notes:

When the discount/addition is a percentage the amount is distributed proportionally over the turnover items and is automatically transferred to the turnovers of the corresponding VAT groups.

A value discount/addition may be specified only if all sales are of articles (items) belonging to one and the same VAT group.

zfpdef: Subtotal(OptionPrinting, OptionDisplay, DiscAddP, DiscAddV)

2.6.17. Command: 34h / 4 – Sell/Correction of article with department definition belonging to VAT class

input: <NamePLU[36]> <;> <DepNum[1..3]> <;> <Price[1..10]> {<'*'>
<Quantity[1..10]>} {<','> <DiscAddP[1..7]>} {<':'> <DiscAddV[1..8]>} {<'!!>
<OptionVATClass[1]>}

output: ACK

FPR operation: Register the sell (for correction use minus sign in the price field) of article with specified department. If VAT is present the relevant accumulations are performed in its registers.

Input data:

NamePLU (PLU Name) 36 symbols for name of sale. 34 symbols are printed on

paper. Symbol 0x7C '|' is new line separator.

DepNum + 80h, (Department Number) 1 symbol for article department

attachment, formed in the following manner: DepNum[HEX] + 80h

example: Dep01 = 81h, Dep02 = 82h ... Dep19 = 93h

Department range from 1 to 127

Price Up to 10 symbols for article's price. Use minus sign '-' for correction

1 symbol '*' indicating the presence of quantity field

Quantity Up to 10 symbols for article's quantity sold

1 symbol ',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) Up to 7 for percentage of discount/addition. Use

minus sign '-' for discount

':' 1 symbol ',' indicating the presence of discount/addition field DiscAddV (Discount/Addition Value) Up to 8 symbols for percentage of

discount/addition. Use minus sign '-' for discount

!!' 1 symbol with value !!'OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'Б' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

Output data: n. a.

Notes:

Sale/correction will be collected in VAT group on department, value and qty will be gain (removed) in this department.

For correction use '-' before value price.

Field for quantity is optional. If there no set qty default value is 1.000

Fields for Disc/add are optional. Disc/add can be only in percents, for discount use '-' before value. Cannot make correction with Disc/add.

zfpdef: SellPLUwithSpecifiedVATfromDep_(NameSale, DepNum, Price, Quantity, DiscAddP, DiscAddV, OptionVATClass)

2.6.18. Command: 34h / 4 – Sell/Correction of article with specified department

input: <NamePLU[36]> <;> <DepNum[1..3]> <;> <Price[1..10]> {<'*'> <Quantity[1..10]>} {<','> <DiscAddP[1..7]>} {<':'> <DiscAddV[1..8]>}

output: ACK

FPR operation: Registers the sell (for correction use minus sign in the price field) of article with specified department, name, price, quantity and/or discount/addition on the transaction.

Input data :

NamePLU (PLU Name) 36 symbols for name of sale. 34 symbols are printed on

paper. Symbol 0x7C '|' is new line separator.

DepNum + 80h, (Department Number) 1 symbol for article department

attachment, formed in the following manner: DepNum[HEX] + 80h

example: Dep01 = 81h, Dep02 = 82h ... Dep19 = 93h

Department range from 1 to 127

Price Up to 10 symbols for article's price. Use minus sign '-' for correction

"

1 symbol '*' indicating the presence of quantity field

Quantity Up to 10symbols for article's quantity sold

',' 1 symbol',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) Up to 7 for percentage of discount/addition. Use

minus sign '-' for discount

':' 1 symbol ',' indicating the presence of discount/addition field DiscAddV (Discount/Addition Value) Up to 8 symbols for percentage of

discount/addition. Use minus sign '-' for discount

Output data: n. a.

Notes:

Sale/correction will be collected in VAT group on department, value and qty will be gain (removed) in this department.

For correction use '-' before value price.

Fields for qty are optional. If there no set qty default value is 1.000

Fields for Disc/add are optional. Disc/add can be only in percents, for discount use '-' before value. Cannot make correction with Disc/add.

zfpdef: SellPLUfromDep (NameSale, DepNum, Price, Quantity, DiscAddP, DiscAddV)

2.6.19. Command: 35h / 5 - Payment

input: <PaymentType[1..2]> <;> <OptionChange[1]> <;> <Amount[1..10]> { <;>
<OptionChangeType[1]> }

output: ACK

FPR operation: Register the payment in the receipt with specified type of payment with amount received.

Input data:

PaymentType (Payment Types)1 symbol for payment type:

- '0' – Payment 0 - '1' – Payment 1 - '2' – Payment 2 - '3' – Payment 3 - '4' – Payment 4 - '5' – Payment 5 - '6' – Payment 6 - '7' – Payment 7 - '8' – Payment 9

- '10' – Payment 9 - '10' – Payment 10 - '11' – Payment 11

OptionChange (Change) Default value is 0, 1 symbol with value:

- '0 – With Change - '1' – Without Change

Amount Up to 10 characters for received amount

1 symbol with value '*'

OptionChangeType 1 symbols with value:

- '0' - Change In Cash

- '1' - Same As The payment - '2' - Change In Currency

Output data: n. a. Notes:

By executing this command the FD enters the payment mode. No further sales and/or corrections are allowed.

If the amount received is equal to or greater than the grand total amount (the amount due) the FD quits the procedure and calculates the change in the specified type of payment except in the cases when OptionChange is not 1 – in such cases the operator is liable for the stated amount.

The receipt can be finalized only when the last payment transfer is sufficient to cover the whole amount due (the grand total amount), i.e. the payment procedure has been finalized.

zfpdef: Payment(PaymentType, OptionChange, Amount, OptionChangeType)

2.6.20. Command: 35h / 5 - Pay exact sum

input: <PaymentType[1..2]> <;> <Option['0']> <;> <Amount['"']>

output: ACK

FPR operation: Register the payment in the receipt with specified type of payment and exact amount received.

Input data :

PaymentType (Payment Types)1 symbol for payment type:

- '0' - Payment 0 - '1' - Payment 1 - '2' - Payment 2 - '3' - Payment 3 - '4' - Payment 4 - '5' - Payment 5 - '6' - Payment 6 - '7' - Payment 7 - '8' - Payment 8 - '9' - Payment 9 - '10' - Payment 10

- '11' – Payment 11
Option 1 symbol with value 0

Amount 1 symbol ' " ', quotation mark, for pay with exact sum

Output data: n.a.

zfpdef: PayExactSum(PaymentType)

2.6.21. Command: 36h / 6 – Automatic receipt closure

input: n. a. output: ACK

FPR operation: Paying the exact amount in cash and close the fiscal receipt.

Input data : n. a. Output data : n. a.

zfpdef: CashPayCloseReceipt()

2.6.22. Command: 37h / 7 – Free text printing

input: <Text[TextLength-2]>

output: ACK

FPR operation: Print a free text. The command can be executed only if receipt is opened (Fiscal receipt, Invoice receipt, Storno receipt, Credit Note or Non-fical receipt). In the beginning and in the end of line symbol '#' is printed.

Input data:

Text TextLength-2 symbols

Output data: n. a. zfpdef: PrintText(Text)

2.6.23. Command: 38h / 8 - Close Fiscal receipt

input: n. a. output: ACK

FPR operation: Close the fiscal receipt (Fiscal receipt, Invoice receipt, Storno

receipt, Credit Note or Non-fical receipt). When the payment is finished.

Input data : n. a.
Output data : n. a.
zfpdef: CloseReceipt()

2.6.24. Command: 39h / 9 - Cancel fiscal receipt

input: n. a. output: ACK

FPR operation: Available only if receipt is not closed. Void all sales in the receipt and close the fiscal receipt (Fiscal receipt, Invoice receipt, Storno receipt or Credit Note). If payment is started, then finish payment and close the receipt.

Input data : n. a.
Output data : n. a.
zfpdef: CancelReceipt()

2.6.25. Command: 3Ah / : - Print a copy of the last document

input: *n. a.* output: ACK

FPR operation: Print a copy of the last receipt issued. When FD parameter for

duplicates is enabled. Input data: n. a.
Output data: n. a.

zfpdef: PrintLastReceiptDuplicate()

2.6.26. Command: 3Bh / ; - Non-fiscal RA and PO amounts

input:<OperNum[1..2]> <;> <OperPass[6]> <;> <PayType[1..2]> <;>
<Amount[1..10]> {<'\$'> <PrintAvailability[1]> } {<;> <Text[TextLength-2]>}

output: ACK

FPR operation: Registers cash received on account or paid out.

Input data :

OperNum (Operator Number) Symbols from 1 to 20 corresponding to the operator's

number

OperPass (Operator Password) 6 symbols for operator's password

PayType 1 symbol with value

- '0' - Cash - '11' - Currency

Amount Up to 10 symbols for the amount lodged. Use minus sign for withdrawn

'\$' 1 symbol with value '\$'PrintAvailability 1 symbol with value:

- '0' - No - '1' - Yes

Text TextLength-2 symbols. In the beginning and in the end of line symbol

'#' is printed.

Output data: n. a.

zfpdef: ReceivedOnAccount_PaidOut(OperNum, OperPass, PayType, Amount, PrintAvailability, Text)

,

2.6.27. Command: 3Ch / < - Sell/Correction of article with specified VAT for devices with 200 departament range

input: <NamePLU[36]> <;> <OptionVATClass[1]> <;> <Price[1..10]> {<'*'>
<Quantity[1..10]>} {<','> <DiscAddP[1..7]>} {<':'> <DiscAddV[1..8]>} {<'!'> <DepNum[1..3]>}
output: ACK

FPR operation: Register the sell (for correction use minus sign in the price field) of article with specified VAT. If department is present the relevant accumulations are performed in its registers.

Input data:

NamePLU (PLU Name) 36 symbols for article's name. 34 symbols are printed on paper.

Symbol 0x7C '|' is new line separator.

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0
- 'Б' – VAT Class 1
- 'B' – VAT Class 2
- 'Г' – VAT Class 3
- 'Д' – VAT Class 4
- 'E' – VAT Class 5
- 'Ж' – VAT Class 6
- '3' – VAT Class 7
- '*' - Forbidden

Price Up to 10 symbols for article's price. Use minus sign '-' for correction

1 symbol '*' indicating the presence of quantity field

Quantity Up to 10 symbols for quantity

',' 1 symbol ',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) Up to 7 symbols for percentage of discount/addition.

Use minus sign '-' for discount

':' 1 symbol ',' indicating the presence of value discount/addition field DiscAddV (Discount/Addition Value) Up to 8 symbols for value of discount/addition.

Use minus sign '-' for discount

'!' 1 symbol '!' indicating the presence of departament

DepNum Up to 3 symbols for department number

Output data : n. a.

Notes:

The quantity fields are not obligatory. If no value is stated for them the FD executed the command for a default quantity of 1.000

The discount/addition fields are not obligatory. The discount/addition must be in percents and is determined from the presence or absence of the '-' symbol.

zfpdef: SellPLUwithSpecifiedVATfor200DepRangeDevice(NamePLU, OptionVATClass, Price, Quantity, DiscAddP, DiscAddV, DepNum)

2.6.28. Command: 3Eh / > - Discount/ Addition

input: <Type[1]> <;> <OptionSubtotal[1]> {<':'> <DiscAddV[1..8]>} {<','> <DiscAddP[1..7]>}

output: ACK

FPR operation: Percent or value discount/addition over sum of transaction or over subtotal sum specified by field "*Type*".

Input data:

Type 1 symbol with value

- '2' - Defined from the device

- '1' - Over subtotal

- '0' - Over transaction sum

OptionSubtotal (Display Subtotal) 1 symbol with value

- '1' - Yes - '0' - No

':' 1 symbol ':' indicating the presence of value discount/addition field

DiscAddV (Discount/Addition Value) Up to 8 symbols for the value of the discount/addition.

Use minus sign '-' for discount

',' 1 symbol ',' indicating the presence of percent discount/addition field DiscAddP (Discount/Addition %) Up to 7 symbols for the percentage value of the

discount/addition. Use minus sign '-' for discount

Output data: n.a.

zfpdef: PrintDiscountOrAddition(*Type*, *OptionSubtotal*, *DiscAddV*, *DiscAddP*)

2.6.29. Command: 3Dh / = - Sell/Correction of article with fractional quantity belonging to VAT class definition

input: <NamePLU[36]> <;> <OptionVATClass[1]> <;> <Price[1..10]> {<'*'> <Quantity[10]>} {<','> <DiscAddP[1..7]>} {<':'> <DiscAddV[1..8]>}

output: ACK

FPR operation: Register the sell (for correction use minus sign in the price field) of article with specified name, price, fractional quantity, VAT class and/or discount/addition on the transaction.

Input data:

NamePLU (PLU Name) 36 symbols for article's name. 34 symbols are printed on paper.

Symbol 0x7C '|' is new line separator.

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'Б' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

Price Up to 10 symbols for article's price. Use minus sign '-' for correction

1 symbol '*' indicating the presence of quantity field

Quantity From 3 to 10 symbols for quantity in format fractional format, e.g. 1/3

1 symbol ',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) 1 to 7 symbols for percentage of discount/addition. Use

minus sign '-' for discount

':' 1 symbol ',' indicating the presence of value discount/addition field

DiscAddV (Discount/Addition Value) 1 to 8 symbols for value of discount/addition. Use

minus sign '-' for discount

Output data : n. a.

Notes:

If the price field is preceded by a '-' the command is executed by the FD as a correction/void (only if the amount of the corresponding VAT group of the receipt is sufficient).

The quantity fields are not obligatory. If no value is stated for them the FD executed the command for a default quantity of 1.000

The discount/addition fields are not obligatory. The discount/addition must be in percents and is determined from the presence or absence of the '-' symbol.

zfpdef: SellFractQtyPLUwithSpecifiedVAT(NamePLU, OptionVATClass, Price, Quantity, DiscAddP, DiscAddV)

2.6.30. Command: 3Dh / = - Sell/Correction of article with fractional quantity belonging to department

input: <NamePLU[36]> <;> <reserved[' ']> <;> <Price[1..10]> {<'*'> <Quantity[10]>}
{<','> <DiscAddP[1..7]>} {<'!'> <DiscAddV[1..8]>}

output: ACK

FPR operation: Register the sell (for correction use minus sign in the price field) of article belonging to department with specified name, price, fractional quantity and/or discount/addition on the transaction. The VAT of article got from department to which article belongs.

Input data:

NamePLU (PLU Name) 36 symbols for article's name. 34 symbols are printed on paper.

Symbol 0x7C '|' is new line separator.

reserved 1 symbol with value "space"

Price Up to 10 symbols for article's price. Use minus sign '-' for correction

' 1 symbol '' indicating the presence of quantity field

Quantity From 3 to 10 symbols for quantity in format fractional format, e.g. 1/3

',' 1 symbol ',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) 1 to 7 symbols for percentage of discount/addition. Use

minus sign '-' for discount

':' 1 symbol ',' indicating the presence of value discount/addition field

DiscAddV (Discount/Addition Value) 1 to 8 symbols for value of discount/addition. Use

minus sign '-' for discount

"!" 1 symbol "!" indicating the presence of departament

DepNum + 80h (Department Number) 1 symbol for article department

attachment, formed in the following manner; example: Dep01 = 81h, Dep02

= 82h ... Dep19 = 93h

Department range from 1 to 127

Output data : n. a.

Notes:

If the price field is preceded by a '-' the command is executed by the FD as a correction/void (only if the amount of the corresponding VAT group of the receipt is sufficient).

The quantity fields are not obligatory. If no value is stated for them the FD executed the command for a default quantity of 1.000

The discount/addition fields are not obligatory. The discount/addition must be in percents and is determined from the presence or absence of the '-' symbol.

zfpdef: SellFractQtyPLUfromDep(NamePLU, Price, Quantity, DiscAddP, DiscAddV, DepNum)

2.6.31. Command: 3Dh / = - Sell/Correction of article with fractional quantity with specified VAT belonging to department

input: <NamePLU[36]> <;> <OptionVATClass[1]> <;> <Price[1..10]> {<'*'>
<Quantity[10]>} {<','> <DiscAddP[1..7]>} {<':'> <DiscAddV[1..8]>} {<'!'> <DepNum[1..3]>}

output: ACK

FPR operation: Register the sell (for correction use minus sign in the price field) of article with specified VAT. If department is present the relevant accumulations are performed in its registers.

Input data:

NamePLU (PLU Name) 36 symbols for article's name. 34 symbols are printed on paper.

Symbol 0x7C '|' is new line separator.

OptionVATClass 1 character for VAT class:

- 'A' – VAT Class 0 - 'Б' – VAT Class 1 - 'B' – VAT Class 2 - 'Г' – VAT Class 3 - 'Д' – VAT Class 4 - 'E' – VAT Class 5 - 'Ж' – VAT Class 6 - '3' – VAT Class 7 - '*' - Forbidden

Price Up to 10 symbols for article's price. Use minus sign '-' for correction

1 symbol '*' indicating the presence of quantity field

Quantity From 3 to 10 symbols for quantity in format fractional format, e.g. 1/3

'.' 1 symbol ',' indicating the presence of discount/addition field

DiscAddP (Discount/Addition %) Up to 7 symbols for percentage of discount/addition.

Use minus sign '-' for discount

':' 1 symbol ',' indicating the presence of value discount/addition field DiscAddV (Discount/Addition Value) Up to 8 symbols for value of discount/addition.

Use minus sign '-' for discount

'!' 1 symbol '!' indicating the presence of departament

DepNum + 80h (Department Number) 1 symbol for article department

attachment, formed in the following manner; example: Dep01 = 81h, Dep02

= 82h ... Dep19 = 93h

Department range from 1 to 127

Output data : n. a.

Notes:

If the price field is preceded by a '-' the command is executed by the FD as a correction/void (only if the amount of the corresponding VAT group of the receipt is sufficient).

The quantity fields are not obligatory. If no value is stated for them the FD executed the command for a default quantity of 1.000

The discount/addition fields are not obligatory. The discount/addition must be in percents and is determined from the presence or absence of the '-' symbol.

zfpdef: SellFractQtyPLUwithSpecifiedVATfromDep(NamePLU, OptionVATClass, Price, Quantity, DiscAddP, DiscAddV, DepNum)

2.7. COMMANDS FOR READING THE DATA IN FD'S REGISTERS

This set of commands provides information about the status of FD's registers without causing a device activity, i.e. the information is obtained through the communication interface without printing or display visualization.

2.7.1. Command: 6Dh / m – Read daily sale and storno amounts by VAT groups

input: n. a.
 output: <SaleAmountVATGr0[1..13]> <;> <SaleAmountVATGr1[1..13]> <;>
<SaleAmountVATGr2[1..13]> <;> <SaleAmountVATGr3[1..13]> <;> <SaleAmountVATGr5[1..13]> <;> <SaleAmountVATGr5[1..13]> <;> <SaleAmountVATGr6[1..13]> <;>
<SaleAmountVATGr7[1..13]> <;> <SumAllVATGr[1..13]> <;>
<StornoAmountVATGr0[1..13]> <;> <StornoAmountVATGr1[1..13]> <;>
<StornoAmountVATGr2[1..13]> <;> <StornoAmountVATGr3[1..13]> <;></stornoAmountVATGr3[1..13]> <;</stornoAmountVATGr3[1..13]> <;</stornoAmou

<StornoAmountVATGr6[1..13]> <;> <StornoAmountVATGr7[1..13]> <;> <StornoAllVATGr[1..13]> FPR operation: Provides information about the accumulated sale and storno

<StornoAmountVATGr4[1..13]> <;>< StornoAmountVATGr5[1..13]> <;>

Input data : n. a. Output data :

amounts by VAT group.

SaleAmountVATGr0 Up to 13 symbols for the amount accumulated from sales by VAT group A Up to 13 symbols for the amount accumulated from sales by VAT group Б SaleAmountVATGr1 Up to 13 symbols for the amount accumulated from sales by VAT group B SaleAmountVATGr2 Up to 13 symbols for the amount accumulated from sales by VAT group Γ SaleAmountVATGr3 Up to 13 symbols for the amount accumulated from sales by VAT group Δ SaleAmountVATGr4 Up to 13 symbols for the amount accumulated from sales by VAT group E SaleAmountVATGr5 Up to 13 symbols for the amount accumulated from sales by VAT group Ж SaleAmountVATGr6 Up to 13 symbols for the amount accumulated from sales by VAT group 3 SaleAmountVATGr7 SumAllVATGr Up to 13 symbols for sum of all VAT groups Up to 13 symbols for the amount accumulated from Storno by VAT group A StornoAmountVATGr0 StornoAmountVATGr1 Up to 13 symbols for the amount accumulated from Storno by VAT group B Up to 13 symbols for the amount accumulated from Storno by VAT group B StornoAmountVATGr2 StornoAmountVATGr3 Up to 13 symbols for the amount accumulated from Storno by VAT group Γ StornoAmountVATGr4 Up to 13 symbols for the amount accumulated from Storno by VAT group Д Up to 13 symbols for the amount accumulated from Storno by VAT group E StornoAmountVATGr5 Up to 13 symbols for the amount accumulated from Storno by VAT group XK StornoAmountVATGr6 Up to 13 symbols for the amount accumulated from Storno by VAT group 3 StornoAmountVATGr7 StornoAllVATGr Up to 13 symbols for the amount accumulated from Storno by all groups

zfpdef: ReadDailySaleAndStornoAmountsByVAT()

2.7.2. Command: 6Eh / n – Read registers, Option '0' (on hand)

input: <'0'>

output: <'0'> <;> <AmountPayment0[1..13]> <;> <AmountPayment1[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment5[1..13]> <;> <AmountPayment6[1..13]> <;> <AmountPayment7[1..13]> <;> <AmountPayment8[1..13]> <;> <AmountPayment10[1..13]> <;> <AmountPayment11[1..13]>

FPR operation: Provides information about the amounts on hand by type of payment.

Input data :

0' 1 symbol obligatory '0'

Output data:

'O' 1 symbol obligatory '0' Up to 13 symbols for the accumulated amount by payment type 0 AmountPayment0 AmountPayment1 Up to 13 symbols for the accumulated amount by payment type 1 Up to 13 symbols for the accumulated amount by payment type 2 AmountPayment2 Up to 13 symbols for the accumulated amount by payment type 3 AmountPayment3 AmountPayment4 Up to 13 symbols for the accumulated amount by payment type 4 AmountPayment5 Up to 13 symbols for the accumulated amount by payment type 5 AmountPayment6 Up to 13 symbols for the accumulated amount by payment type 6 AmountPayment7 Up to 13 symbols for the accumulated amount by payment type 7 AmountPayment8 Up to 13 symbols for the accumulated amount by payment type 8 AmountPayment9 Up to 13 symbols for the accumulated amount by payment type 9 AmountPavment10 Up to 13 symbols for the accumulated amount by payment type 10

AmountPayment11 Up to 13 symbols for the accumulated amount by payment type 11

zfpdef: ReadDailyAvailableAmounts()

2.7.3. Command: 6Eh / n – Read registers, Option '0', KL (on hand)

input: <'0'>

output: <'0'> <;> <AmountPayment0[1..13]> <;> <AmountPayment1[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment3[1..13]> <;> <AmountPayment4[1..13]>

FPR operation: Provides information about the amounts on hand by type of payment. Command works for KL version 2 devices.

Input data:

'0' 1 symbol obligatory '0'

Output data:

'0' 1 symbol obligatory '0'

AmountPayment0 Up to 13 symbols for the accumulated amount by payment type 0
Up to 13 symbols for the accumulated amount by payment type 1
Up to 13 symbols for the accumulated amount by payment type 2
Up to 13 symbols for the accumulated amount by payment type 3
Up to 13 symbols for the accumulated amount by payment type 3
Up to 13 symbols for the accumulated amount by payment type 4

zfpdef: ReadDailyAvailableAmounts_Old()

2.7.4. Command: 6Eh / n - Read registers, Option '1' (general)

input: <'1'>

output: <'1'> <;> <CustomersNum[1..5]> <;> <DiscountsNum[1..5]> <;> <DiscountsAmount[1..13]> <;> <AdditionsNum[1..5]> <;> <AdditionsAmount[1..13]> <;> <CorrectionsNum[1..5]> <;> <CorrectionsNum[1..5]> <;> <CorrectionsNum[1..5]> <;</pre>

FPR operation: Provides information about the number of customers (number of fiscal receipt issued), number of discounts, additions and corrections made and the accumulated amounts.

Input data:

'1' 1 symbol with value '1'

Output data:

'1' 1 symbol with value '1'

CustomersNum Up to 5 symbols for number of customers DiscountsNum Up to 5 symbols for number of discounts

Discounts Amount Up to 13 symbols for accumulated amount of discounts

AdditionsNum Up to 5 symbols for number of additions

Additions Amount Up to 13 symbols for accumulated amount of additions

CorrectionsNum Up to 5 symbols for number of corrections

Corrections Amount Up to 13 symbols for accumulated amount of corrections

zfpdef:ReadGeneralDailyRegisters()

2.7.5. Command: 6Eh / n – Read registers, Option '2' (RA)

input: <'2'>

output: <'2'> <;> <AmountPayment0[1..13]> <;> <AmountPayment1[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment5[1..13]> <;> <AmountPayment6[1..13]> <;> <AmountPayment7[1..13]> <;> <AmountPayment7[1..13]> <;> <AmountPayment10[1..13]> <;> <AmountPayment11[1..13]> <;> <AmountPayment10[1..13]> <;> <AmountPayment11[1..13]> <;> <RANum[1..5]> <;> <SumAllPayment[1..13]>

FPR operation: Provides information about the RA amounts by type of payment and the total number of operations.

Input data:

'2' 1 symbol obligatory '2'

Output data:

'2' 1 symbol obligatory '2'

Up to 13 symbols for the accumulated amount by payment type 0 AmountPayment0 Up to 13 symbols for the accumulated amount by payment type 1 AmountPayment1 Up to 13 symbols for the accumulated amount by payment type 2 AmountPayment2 Up to 13 symbols for the accumulated amount by payment type 3 AmountPayment3 AmountPayment4 Up to 13 symbols for the accumulated amount by payment type 4 AmountPayment5 Up to 13 symbols for the accumulated amount by payment type 5 Up to 13 symbols for the accumulated amount by payment type 6 AmountPayment6 AmountPayment7 Up to 13 symbols for the accumulated amount by payment type 7 AmountPayment8 Up to 13 symbols for the accumulated amount by payment type 8 Up to 13 symbols for the accumulated amount by payment type 9 AmountPayment9 Up to 13 symbols for the accumulated amount by payment type 10 AmountPayment10 AmountPayment11 Up to 13 symbols for the accumulated amount by payment type 11

RANum Up to 5 symbols for the total number of operations

SumAllPayment Up to 13 symbols to sum all payments

zfpdef: ReadDailyRA()

2.7.6. Command: 6Eh / n – Read registers, Option '2', KL (RA)

input: <'2'>

output: <'2'> <;> <AmountPayment0[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment4[1..13]> <;> <RANum[1..5]> <;> <SumAllPayment[1..13]>

FPR operation: Provides information about the RA amounts by type of payment and the total number of operations. Command works for KL version 2 devices.

Input data:

'2' 1 symbol obligatory '2'

Output data:

'2' 1 symbol obligatory '2'

AmountPayment0 Up to 13 symbols for the accumulated amount by payment type 0
Up to 13 symbols for the accumulated amount by payment type 1
Up to 13 symbols for the accumulated amount by payment type 2
Up to 13 symbols for the accumulated amount by payment type 3
Up to 13 symbols for the accumulated amount by payment type 4

RANum Up to 5 symbols for the total number of operations

SumAllPayment Up to 13 symbols to sum all payments

zfpdef: ReadDailyRA_Old()

2.7.7. Command: 6Eh / n - Read registers, Option '3' (PO)

input: <'3'>

output: <'3'> <;> <AmountPayment0[1..13]> <;> <AmountPayment1[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment5[1..13]> <;> <AmountPayment6[1..13]> <;> <AmountPayment7[1..13]> <;> <AmountPayment8[1..13]> <;> <AmountPayment10[1..13]> <;> <AmountPayment11[1..13]> <;> <PONum[1..5]> <;> <SumAllPayment[1..13]>

FPR operation: Provides information about the PO amounts by type of payment and the total number of operations.

Input data:

'3' 1 symbol obligatory '3'

Output data:

'3' 1 symbol obligatory '3'

Up to 13 symbols for the accumulated amount by payment type 0 AmountPayment0 AmountPayment1 Up to 13 symbols for the accumulated amount by payment type 1 Up to 13 symbols for the accumulated amount by payment type 2 AmountPayment2 AmountPayment3 Up to 13 symbols for the accumulated amount by payment type 3 Up to 13 symbols for the accumulated amount by payment type 4 AmountPayment4 Up to 13 symbols for the accumulated amount by payment type 5 AmountPayment5 AmountPayment6 Up to 13 symbols for the accumulated amount by payment type 6 AmountPayment7 Up to 13 symbols for the accumulated amount by payment type 7 AmountPayment8 Up to 13 symbols for the accumulated amount by payment type 8 Up to 13 symbols for the accumulated amount by payment type 9 AmountPayment9 Up to 13 symbols for the accumulated amount by payment type 10 AmountPayment10 AmountPayment11 Up to 13 symbols for the accumulated amount by payment type 11

PONum Up to 5 symbols for the total number of operations

SumAllPayment Up to 13 symbols to sum all payments

zfpdef: ReadDailyPO()

2.7.8. Command: 6Eh / n - Read registers, Option '3', KL (PO)

input: <'3'>

output: <'3'> <;> <AmountPayment0[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment2[1..13]> <;> <PONum[1..5]> <;> <SumAllPayment[1..13]>

FPR operation: Provides information about the PO amounts by type of payment and the total number of operations. Command works for KL version 2 devices.

Input data:

'3' 1 symbol obligatory '3'

Output data:

'3' 1 symbol obligatory '3'

AmountPayment0 Up to 13 symbols for the accumulated amount by payment type 0
Up to 13 symbols for the accumulated amount by payment type 1
Up to 13 symbols for the accumulated amount by payment type 2
Up to 13 symbols for the accumulated amount by payment type 3
Up to 13 symbols for the accumulated amount by payment type 3
Up to 13 symbols for the accumulated amount by payment type 4

PONum Up to 5 symbols for the total number of operations

SumAllPayment Up to 13 symbols to sum all payments

zfpdef: ReadDailyPO Old()

2.7.9. Command: 6Eh / n - Read registers, Option '4' (received)

input: <'4'>

output: <'4'> <;> <AmountPayment0[1..13]> <;> <AmountPayment1[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment5[1..13]> <;> <AmountPayment6[1..13]> <;> <AmountPayment7[1..13]> <;> <AmountPayment8[1..13]> <;> <AmountPayment10[1..13]> <;> <AmountPayment11[1..13]>

FPR operation: Provides information about the amounts received from sales by type of payment.

Input data:

'4' 1 symbol obligatory '4'

Output data:

1 symbol obligatory '4' Up to 13 symbols for the accumulated amount by payment type 0 AmountPayment0 Up to 13 symbols for the accumulated amount by payment type 1 AmountPayment1 Up to 13 symbols for the accumulated amount by payment type 2 AmountPayment2 Up to 13 symbols for the accumulated amount by payment type 3 AmountPayment3 Up to 13 symbols for the accumulated amount by payment type 4 AmountPayment4 AmountPayment5 Up to 13 symbols for the accumulated amount by payment type 5 Up to 13 symbols for the accumulated amount by payment type 6 AmountPayment6 Up to 13 symbols for the accumulated amount by payment type 7 AmountPayment7 AmountPayment8 Up to 13 symbols for the accumulated amount by payment type 8 Up to 13 symbols for the accumulated amount by payment type 9 AmountPayment9 Up to 13 symbols for the accumulated amount by payment type 10 AmountPayment10 Up to 13 symbols for the accumulated amount by payment type 11 AmountPayment11 **zfpdef:** ReadDailyReceivedSalesAmounts()

2.7.10. Command: 6Eh / n - Read registers, Option '4', KL (received)

input: <'4'>

output: <'4'> <;> <AmountPayment0[1..13]> <;> <AmountPayment1[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment3[1..13]> <;> <AmountPayment4[1..13]>

FPR operation: Provides information about the amounts received from sales by type of payment. Command works for KL version 2 devices.

Input data:

'4' 1 symbol obligatory '4'

Output data:

'4' 1 symbol obligatory '4'

AmountPayment0 Up to 13 symbols for the accumulated amount by payment type 0
Up to 13 symbols for the accumulated amount by payment type 1
Up to 13 symbols for the accumulated amount by payment type 2
Up to 13 symbols for the accumulated amount by payment type 3
Up to 13 symbols for the accumulated amount by payment type 3
Up to 13 symbols for the accumulated amount by payment type 4

zfpdef: ReadDailyReceivedSalesAmounts_Old()

2.7.11. Command: 6Eh / n – Read registers, Option '5' (counters)

input: <'5'>

output: <'5'> <;> <LastReportNumFromReset[1..5]> <;> <LastFMBlockNum[1..5]>
<;> <EJNum[1..5]> <;> <DateTime "DD-MM-YYYY HH:MM">

FPR operation: Provides information about the current reading of the daily-report-with-zeroing counter, the number of the last block stored in FM, the number of EJ and the date and time of the last block storage in the FM.

Input data :

'5' 1 symbol obligatory '5'

Output data:

'5' 1 symbol obligatory '5'

LastReportNumFromReset Up to 5 symbols for number of the last report from reset

LastFMBlockNum Up to 5 symbols for number of the last FM report

EJNum Up to 5 symbols for number of EJ

DateTime 16 symbols for date and time of the last block storage in FM in

format "DD-MM-YYYY HH:MM"

zfpdef: ReadDailyCounters()

2.7.12. Command: 6Eh / n – Read registers, Option '6' (change)

input: <'6'>

output: <'6'> <;> <AmountPayment0[1..13]> <;> <AmountPayment1[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment5[1..13]> <;> <AmountPayment6[1..13]> <;> <AmountPayment7[1..13]> <;> <AmountPayment8[1..13]> <;> <AmountPayment10[1..13]> <;> <AmountPayment11[1..13]>

FPR operation: Provides information about the amounts returned as change by type of payment.

Input data :

'6' 1 symbol obligatory '6'

Output data:

1 symbol obligatory '6' Up to 13 symbols for the accumulated amount by payment type 0 AmountPayment0 Up to 13 symbols for the accumulated amount by payment type 1 AmountPayment1 Up to 13 symbols for the accumulated amount by payment type 2 AmountPayment2 Up to 13 symbols for the accumulated amount by payment type 3 AmountPayment3 AmountPavment4 Up to 13 symbols for the accumulated amount by payment type 4 AmountPayment5 Up to 13 symbols for the accumulated amount by payment type 5 Up to 13 symbols for the accumulated amount by payment type 6 AmountPayment6 AmountPayment7 Up to 13 symbols for the accumulated amount by payment type 7 AmountPayment8 Up to 13 symbols for the accumulated amount by payment type 8 Up to 13 symbols for the accumulated amount by payment type 9 AmountPayment9 Up to 13 symbols for the accumulated amount by payment type 10 AmountPayment10 AmountPayment11 Up to 13 symbols for the accumulated amount by payment type 11 **zfpdef**: ReadDailyReturnedChangeAmounts()

2.7.13. Command: 6Eh / n – Read registers, Option '6', KL (change)

input: <'6'>

output: <'6'> <;> <AmountPayment0[1..13]> <;> <AmountPayment1[1..13]> <;> <AmountPayment2[1..13]> <;> <AmountPayment4[1..13]>

FPR operation: Provides information about the amounts returned as change by type of payment. Command works for KL version 2 devices.

Input data:

'6' 1 symbol obligatory '6'

Output data:

'6' 1 symbol obligatory '6'

AmountPayment0 Up to 13 symbols for the accumulated amount by payment type 0
Up to 13 symbols for the accumulated amount by payment type 1
Up to 13 symbols for the accumulated amount by payment type 2
Up to 13 symbols for the accumulated amount by payment type 3
Up to 13 symbols for the accumulated amount by payment type 3
Up to 13 symbols for the accumulated amount by payment type 4

zfpdef: ReadDailyReturnedChangeAmounts Old()

2.7.14. Command: 6Eh / n – Read registers, Option '7' (Sums in FD)

input: <'7'>

output:<'7'> <;> <GrandFiscalTurnover[1..14]> <;> <GrandFiscalStornoTurnover[1..14]> <;> <GrandFiscalStornoVAT[1..14]>

FPR operation: Read the Grand fiscal turnover sum and Grand fiscal VAT sum.

Input data:

'7' 1 symbol obligatory '7'

Output data:

'7' 1 symbol obligatory '7'

GrandFiscalTurnover Up to 14 symbols for sum of turnover in FD GrandFiscalVAT Up to 14 symbols for sum of VAT value in FD

GrandFiscalStornoTurnover Up to 14 symbols for sum of STORNO turnover in FD GrandFiscalStornoVAT Up to 14 symbols for sum of STORNO VAT value in FD

zfpdef: ReadGrandFiscalSalesAndStornoAmounts()

2.7.15. Command: 6Eh / n – Read registers, Option '9', electronic signature of last daily report

input: <'9'>

output: <'9'> <;> <LastDailyReportSignature[40]>

FPR operation: Provides information about electronic signature of last daily report.

Input data:

'9' 1 symbol obligatory '9'

Output data:

'9' 1 symbol obligatory '9'

LastDailyReportSignature 40 symbols electronic signature

zfpdef: ReadLastDailySignature()

2.7.16. Command: 6Eh / n - Display daily turnover registers, Option ':'

input: <">
output: ACK

FPR operation: Provides information about daily turnover on the FD client display

Input data :

":' 1 symbol obligatory ':'

Output data: n. a.

zfpdef: DisplayDailyTurnover()

2.7.17. Command: 6Eh / n – Read available amounts for last Z report, Option 'Z'

input: <'Z'>

output: <'Z'> <;> <ZReportType[1]> <;> <ZreportNum[4]> <;>
<CashAvailableAmount[1..13]> <;> <CurrencyAvailableAmount[1..13]>

FPR operation: Provides information about daily available amounts in cash and

currency, Z daily report type and Z daily report number

Input data:

'Z' 1 symbol obligatory 'Z'

Output data:

'Z' 1 symbol obligatory 'Z'

ZreportType 1 symbol with value:
- '0' – Manual

- '1' - Automatic

ZReportNum 4 symbols for Z report number in format ####

CashAvailableAmount Up to 13 symbols for available amounts in cash payment CurrencyAvailableAmount Up to 13 symbols for available amounts in currency payment

zfpdef: ReadLastDailyReportAvailableAmounts()

2.7.18. Command: 6Fh / o – Read operator's report, Option '1' (general)

input: <'1'> <;> < OperNum[1..2]>

output:<'1'> <;> <OperNum[1..2]> <;> <CustomersNum[1..5]> <;>

<DiscountsNum[1..5]> <;> <DiscountsAmount[1..13]> <;> <AdditionsNum[1..5]> <;> <AdditionsAmount[1..13]> <;> <CorrectionsNum[1..5]> <;> <CorrectionsAmount[1..13]>

FPR operation: Read the total number of customers, discounts, additions, corrections and accumulated amounts by specified operator.

Input data:

'1' 1 symbol obligatory '1'

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's number

Output data:

'1' 1 symbol obligatory '1'

OperNum Symbols from 1 to 20 corresponding to operator's number

CustomersNum

Up to 5 symbols for number of customers

DiscountsNum

Up to 5 symbols for number of discounts

Discounts Amount Up to 13 symbols for accumulated amount of discounts

AdditionsNum Up to 5 symbols for number of additions

Additions Amount Up to 13 symbols for accumulated amount of additions

CorrectionsNum Up to 5 symbols for number of corrections

Corrections Amount Up to 13 symbols for accumulated amount of corrections

zfpdef: ReadDailyGeneralRegistersByOperator(OperNum)

2.7.19. Command: 6Fh / o - Read operator's report, Option '2' (RA)

input: <'2'> <;> < OperNum[1..2]> output:<'2'> <;> <OperNum[1..2]> <;> <AmountRA Payment0[1..13]> <;> <AmountRA Payment1[1..13]> <:> <AmountRA Payment2[1..13]> <:> <AmountRA Payment3[1..13]> <:> <AmountRA Payment4[1..13]> <:> <AmountRA Payment5[1..13]> <;><AmountRA Payment6[1..13]> <;> <AmountRA Payment7[1..13]> <;><AmountRA Payment8[1..13]> <;> <AmountRA Payment9[1..13]> <:><AmountRA Payment10[1..13]> <:> <AmountRA Payment11[1..13]> <;> <NoRA[1..5]>

FPR operation: Read the RA by type of payment and the total number of operations by specified operator.

Input data:

'2' 1 symbol obligatory '2'

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's number

Output data:

'2' 1 symbol obligatory '2'

Symbols from 1 to 20 corresponding to operator's number OperNum

AmountRA Payment0 Up to 13 symbols for the RA by type of payment 0 Up to 13 symbols for the RA by type of payment 1 AmountRA_Payment1 Up to 13 symbols for the RA by type of payment 2 AmountRA_Payment2 AmountRA Payment3 Up to 13 symbols for the RA by type of payment 3 Up to 13 symbols for the RA by type of payment 4 AmountRA Payment4 Up to 13 symbols for the RA by type of payment 5 AmountRA Payment5 Up to 13 symbols for the RA by type of payment 6 AmountRA_Payment6 Up to 13 symbols for the RA by type of payment 7 AmountRA Payment7 Up to 13 symbols for the RA by type of payment 8 AmountRA Payment8 Up to 13 symbols for the RA by type of payment 9 AmountRA Payment9 Up to 13 symbols for the RA by type of payment 10 AmountRA Payment10 Up to 13 symbols for the RA by type of payment 11 AmountRA Payment11

Up to 5 symbols for the total number of operations

zfpdef: ReadDailyRAbyOperator(OperNum)

2.7.20. Command: 6Fh / o - Read operator's report, Option '2', KL (RA)

input: <'2'> <;> < OperNum[1..2]>

output:<'2'> <:> < OperNum[1..2]> <:> < AmountRA Payment0[1..13]> <:>

<AmountRA_Payment1[1..13]> <;> <AmountRA_Payment2[1..13]> <;>

<AmountRA Payment3[1..13]> <;> <AmountRA Payment4[1..13]> <;> <;> <NoRA[1..5]>

FPR operation: Read the RA by type of payment and the total number of operations by specified operator. Command works for KL version 2 devices.

Input data:

1 symbol obligatory '2'

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's number

Output data:

1 symbol obligatory '2'

Symbols from 1 to 20 corresponding to operator's number **OperNum**

AmountRA_Payment0 Up to 13 symbols for the RA by type of payment 0 Up to 13 symbols for the RA by type of payment 1 AmountRA Payment1 Up to 13 symbols for the RA by type of payment 2 AmountRA Payment2 AmountRA Payment3 Up to 13 symbols for the RA by type of payment 3 Up to 13 symbols for the RA by type of payment 4 AmountRA_Payment4 Up to 5 symbols for the total number of operations NoRA

zfpdef: ReadDailyRAbyOperator_Old(OperNum)

2.7.21. Command: 6Fh / o – Read operator's report, Option '3' (PO)

```
output:<'3'> <;> < OperNum[1..2]> <;> < AmountPO Payment0[1..13]> <;>
<AmountPO Payment1[1..13]> <;> <AmountPO Payment2[1..13]> <;>
<AmountPO Payment3[1..13]> <;> <AmountPO Payment4[1..13]> <;>
<AmountPO Payment5[1..13]> <:> <AmountPO Payment6[1..13]> <:>
<AmountPO Payment7[1..13]> <;> <AmountPO Payment8[1..13]> <;>
<AmountPO Payment9[1..13]> <;> <AmountPO Payment10[1..13]> <;>
<AmountPO Payment11[1..13]> <:><NoPO[1..5]>
      FPR operation: Read the PO by type of payment and the total number of
operations by specified operator
Input data:
                   1 symbol obligatory '3'
OperNum
                   (Operator Number) Symbols from 1 to 20 corresponding to operator's number
Output data:
'3'
                       1 symbol obligatory '3'
OperNum
                       Symbols from 1 to 20 corresponding to operator's number
                       Up to 13 symbols for the PO by type of payment 0
AmountPO Payment0
AmountPO Payment1
                       Up to 13 symbols for the PO by type of payment 1
                       Up to 13 symbols for the PO by type of payment 2
AmountPO Payment2
                       Up to 13 symbols for the PO by type of payment 3
AmountPO Payment3
                       Up to 13 symbols for the PO by type of payment 4
AmountPO Payment4
AmountPO_Payment5
                       Up to 13 symbols for the PO by type of payment 5
                       Up to 13 symbols for the PO by type of payment 6
AmountPO Payment6
```

zfpdef: ReadDailyPObyOperator(OperNum)

input: <'3'> <;> < OperNum[1..2]>

2.7.22. Command: 6Fh / o - Read operator's report, Option '3', KL (PO)

5 symbols for the total number of operations

Up to 13 symbols for the PO by type of payment 7 Up to 13 symbols for the PO by type of payment 8

Up to 13 symbols for the PO by type of payment 9

Up to 13 symbols for the PO by type of payment 10

Up to 13 symbols for the PO by type of payment 11

```
input: <'3'> <;> <OperNum[1..2]>
   output: <'3'> <;> <OperNum[1..2]> <;> <AmountPO_Payment0[1..13]> <;>
<AmountPO_Payment1[1..13]> <;> <AmountPO_Payment2[1..13]> <;> <AmountPO_Payment3[1..13]> <;> <AmountPO_Payment4[1..13]> <;> <NoPO[1..5]>
        FPR operation: Read the PO by type of payment and the total number of operations by specified operator. Command works for KL version 2 devices.
Input data:
```

'3' 1 symbol obligatory '3'

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's number

Output data:

AmountPO Payment7

AmountPO Payment8

AmountPO Payment9

NoPO

AmountPO_Payment10
AmountPO Payment11

'3' 1 symbol obligatory '3'

OperNum Symbols from 1 to 20 corresponding to operator's number

AmountPO_Payment0

AmountPO_Payment1

AmountPO_Payment2

AmountPO_Payment3

AmountPO_Payment3

AmountPO_Payment4

NoPO

Up to 13 symbols for the PO by type of payment 1

Up to 13 symbols for the PO by type of payment 2

Up to 13 symbols for the PO by type of payment 3

Up to 13 symbols for the PO by type of payment 3

Up to 13 symbols for the PO by type of payment 4

Up to 5 symbols for the total number of operations

zfpdef: ReadDailyPObyOperator_Old(OperNum)

2.7.23. Command: 6Fh / o – Read operator's report, Option '4' (received)

input: <'4'> <;> < OperNum[1..2]>

output: <'4'> <;> <OperNum[1..2]> <;> <ReceivedSalesAmountPayment0[1..13]> <;> <ReceivedSalesAmountPayment1[1..13]> <;> <ReceivedSalesAmountPayment2[1..13]> <;> <ReceivedSalesAmountPayment3[1..13]> <;> <ReceivedSalesAmountPayment4[1..13]> <;> <ReceivedSalesAmountPayment5[1..13]> <;> <ReceivedSalesAmountPayment6[1..13]> <;> <ReceivedSalesAmountPayment7[1..13]> <;> <ReceivedSalesAmountPayment8[1..13]> <;> <ReceivedSalesAmountPayment1[1..13]> <;> <ReceivedSalesAmountPayment10[1..13]> <;> <ReceivedSalesAmountPayment11[1..13]> <;</pre>

FPR operation: Read the amounts received from sales by type of payment and specified operator.

Input data:

'4' 1 symbol obligatory '4'

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's

number

Output data:

'4' 1 symbol obligatory '4' OperNum Symbols from 1 to 20 corresponding to operator's number

Up to 13 symbols for amounts received by sales for payment 0 ReceivedSalesAmountPayment0 Up to 13 symbols for amounts received by sales for payment 1 ReceivedSalesAmountPayment1 Up to 13 symbols for amounts received by sales for payment 2 ReceivedSalesAmountPayment2 ReceivedSalesAmountPayment3 Up to 13 symbols for amounts received by sales for payment 3 Up to 13 symbols for amounts received by sales for payment 4 ReceivedSalesAmountPayment4 ReceivedSalesAmountPayment5 Up to 13 symbols for amounts received by sales for payment 5 Up to 13 symbols for amounts received by sales for payment 6 ReceivedSalesAmountPayment6 Up to 13 symbols for amounts received by sales for payment 7 ReceivedSalesAmountPayment7 ReceivedSalesAmountPayment8 Up to 13 symbols for amounts received by sales for payment 8 Up to 13 symbols for amounts received by sales for payment 9 ReceivedSalesAmountPayment9 Up to 13 symbols for amounts received by sales for payment 10 ReceivedSalesAmountPayment10 Up to 13 symbols for amounts received by sales for payment 11 ReceivedSalesAmountPayment11

zfpdef: ReadDailyReceivedSalesAmountsByOperator(OperNum)

2.7.24. Command: 6Fh / o – Read operator's report, Option '4', KL (received)

input: <'4'> <;> < OperNum[1..2]>

output:<'4'> <;> <OperNum[1..2]> <;> <ReceivedSalesAmountPayment0[1..13]> <;> <ReceivedSalesAmountPayment1[1..13]> <;> <ReceivedSalesAmountPayment3[1..13]> <;> <ReceivedSalesAmountPayment4[1..13]>

FPR operation: Read the amounts received from sales by type of payment and specified operator. Command works for KL version 2 devices.

Input data:

'4' 1 symbol obligatory '4'

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's

number

Output data:

'4' 1 symbol obligatory '4'

OperNum
ReceivedSalesAmountPayment0
ReceivedSalesAmountPayment1
Up to 13 symbols for amounts received by sales for payment 0
Up to 13 symbols for amounts received by sales for payment 1
Up to 13 symbols for amounts received by sales for payment 2
Up to 13 symbols for amounts received by sales for payment 2
Up to 13 symbols for amounts received by sales for payment 3
ReceivedSalesAmountPayment4
Up to 13 symbols for amounts received by sales for payment 3
Up to 13 symbols for amounts received by sales for payment 4

zfpdef: ReadDailyReceivedSalesAmountsByOperator_Old(OperNum)

2.7.25. Command: 6Fh / o – Read operator's report, Option '5' (counters)

input: <'5'> <;> < OperNum[1..2]>

output: <'5'> <;> < OperNum[1..2]> <;> < WorkOperatorsCounter[1..5]> <;>

<LastOperatorReportDateTime "DD-MM-YYYY HH:MM">

FPR operation: Read the last operator's report number and date and time.

Input data:

'5' 1 symbol obligatory '5'

OperNum (Operator Number) Symbols from 1 to 20 corresponding to operator's

number

Output data:

'5" 1 symbol obligatory '5'

OperNum Symbols from 1 to 20 corresponding to operator's number

WorkOperatorsCounter Up to 5 symbols for number of the work operators

LastOperatorReportDateTime 16 symbols for date and time of the last operator's report in

format DD-MM-YYYY HH:MM

zfpdef: ReadDailyCountersByOperator(OperNum)

2.7.26. Command: 6Fh / o – Read operator's report, Option '6' (change)

input: <'6'> <;> < OperNum[1..2]>

output:<'6'> <;> < OperNum[1..2]> <;> < ChangeAmountPayment0[1..13]> <;>

<ChangeAmountPayment1[1..13]> <;> <ChangeAmountPayment2[1..13]> <;>

<ChangeAmountPayment3[1..13]> <;> <ChangeAmountPayment4[1..13]> <;>

<ChangeAmountPayment5[1..13]> <;> <ChangeAmountPayment6[1..13]> <;>

<ChangeAmountPayment7[1..13]> <;> <ChangeAmountPayment8[1..13]> <;>

<ChangeAmountPayment9[1..13]> <;> <ChangeAmountPayment10[1..13]> <;>

<ChangeAmountPayment11[1..13]>

FPR operation: Read the amounts returned as change by different payment types for the specified operator.

Input data :

6' 1 symbol obligatory '6'

OperNum (Operator Number) Symbol from 1 to 20 corresponding to operator's number

Output data:

'6' 1 symbol obligatory '6'

OperNum Symbols from 1 to 20 corresponding to operator's number Up to 13 symbols for amounts received by type of payment 0 ChangeAmountPayment0 Up to 13 symbols for amounts received by type of payment 1 ChangeAmountPayment1 ChangeAmountPayment2 Up to 13 symbols for amounts received by type of payment 2 Up to 13 symbols for amounts received by type of payment 3 ChangeAmountPayment3 Up to 13 symbols for amounts received by type of payment 4 ChangeAmountPayment4 ChangeAmountPayment5 Up to 13 symbols for amounts received by type of payment 5 ChangeAmountPayment6 Up to 13 symbols for amounts received by type of payment 6 Up to 13 symbols for amounts received by type of payment 7 ChangeAmountPayment7 Up to 13 symbols for amounts received by type of payment 8 ChangeAmountPayment8 ChangeAmountPayment9 Up to 13 symbols for amounts received by type of payment 9 ChangeAmountPayment10 Up to 13 symbols for amounts received by type of payment 10 ChangeAmountPayment11 Up to 13 symbols for amounts received by type of payment 11

zfpdef: ReadDailyReturnedChangeAmountsByOperator(OperNum)

2.7.27. Command: 6Fh / o – Read operator's report, Option '6', KL (change)

input: <'6'> <;> <OperNum[1..2]>

output:<'6'> <;> <OperNum[1..2]> <;> <ChangeAmountPayment0[1..13]> <;>

<ChangeAmountPayment1[1..13]> <;> <ChangeAmountPayment2[1..13]> <;> <ChangeAmountPayment4[1..13]> <;>

FPR operation: Read the amounts returned as change by different payment types for the specified operator. Command works for KL version 2 devices.

Input data:

6' 1 symbol obligatory '6'

OperNum (Operator Number) Symbol from 1 to 20 corresponding to operator's number

Output data:

'6' 1 symbol obligatory '6'

OperNum

ChangeAmountPayment0

ChangeAmountPayment1

ChangeAmountPayment2

ChangeAmountPayment2

ChangeAmountPayment3

ChangeAmountPayment3

ChangeAmountPayment4

Symbols for amounts received by type of payment 1

Up to 13 symbols for amounts received by type of payment 2

Up to 13 symbols for amounts received by type of payment 3

Up to 13 symbols for amounts received by type of payment 4

zfpdef: ReadDailyReturnedChangeAmountsByOperator_Old(OperNum)

2.7.28. Command: 70h / p – Read invoice number range

input: n. a.

output: <*StartNum*[10]> <;> <*EndNum*[10]>

FPR operation: Provide information about invoice start and end numbers range.

Input data : n. a. Output data :

zfpdef: ReadInvoiceRange()

2.7.29. Command: 71h / q - Read total receipt number

input: n. a.

output:<TotalReceiptCounter[6]>

FPR operation: Read the total counter of last issued receipt.

Input data : n. a. Output data :

TotalReceiptCounter 6 symbols for the total receipt counter in format ######

up to current last issued receipt by FD

zfpdef: ReadLastReceiptNum()

2.7.30. Command: 72h / r – Read information about current opened receipt

input: n. a.

output:<IsReceiptOpened[1]> <;> <SalesNumber[3]> <;> <SubtotalAmountVAT0[1..13]> <;> <SubtotalAmountVAT1[1..13]> <;> <SubtotalAmountVAT2[1..13]> <;> <ForbiddenVoid[1]> <;> <VATinReceipt[1]> <;> <ReceiptFormat[1]> <;> <InitiatedPayment[1]> <;> <FinalizedPayment[1]> <;> <PowerDownInReceipt[1]> <;> <TypeReceipt[1]> <;> <ChangeAmount[1..13]> <;> <OptionChangeType[1]> <;> <SubtotalAmountVAT4[1..13]>

<;> <SubtotalAmountVAT5[1..13]> <;> <SubtotalAmountVAT6[1..13]> <;>

<SubtotalAmountVAT7[1..13]> <;> <CurrentReceiptNumber[6]>

FPR operation: Read the current status of the receipt.

Input data : n. a. Output data :

IsReceiptOpened 1 symbol with value:

- '0' - No - '1' - Yes

SalesNumber 3 symbols for number of sales in format ###
SubtotalAmountVAT0 Up to 13 symbols for subtotal by VAT group A
SubtotalAmountVAT2 Up to 13 symbols for subtotal by VAT group B
Up to 13 symbols for subtotal by VAT group B

ForbiddenVoid 1 symbol with value:

- '0' – allowed - '1' - forbidden

VATinReceipt 1 symbol with value:

- '0' – No - '1' - Yes

ReceiptFormat (Format) 1 symbol with value:

- '1' - Detailed - '0' - Brief

InitiatedPayment 1 symbol with value:

- '0' - No - '1' - Yes

FinalizedPayment 1 symbol with value:

- '0' - No - '1' - Yes

PowerDownInReceipt 1 symbol with value:

- '0' - No - '1' - Yes

TypeReceipt (Receipt and Printing type) 1 symbol with value:

'0' - Sales receipt printing step by step
'2' - Sales receipt Postponed Printing
'4' - Storno receipt printing step by step
'6' - Storno receipt Postponed Printing

'1' – Invoice sales receipt printing step by step
'3' – Invoice sales receipt Postponed Printing

- '5' – Invoice Credit note receipt printing step by step - '7' – Invoice Credit note receipt Postponed Printing

Up to 13 symbols the amount of the due change in the stated payment type

OptionChangeType 1 symbol with value: - '0' - Change In Cash

ChangeAmount

- '1' - Same As The payment - '2' – Change In Currency

SubtotalAmountVAT3 Up to 13 symbols for subtotal by VAT group Γ
SubtotalAmountVAT4 Up to 13 symbols for subtotal by VAT group Д
SubtotalAmountVAT5 Up to 13 symbols for subtotal by VAT group Ε

Communication Protocol 80

SubtotalAmountVAT6 Up to 13 symbols for subtotal by VAT group X SubtotalAmountVAT7 Up to 13 symbols for subtotal by VAT group 3

CurrentReceiptNumber 6 symbols for fiscal receipt number in format ######

zfpdef: ReadCurrentReceiptInfo()

2.7.31. Command: 72h / r – Read information about current/last receipt payments amounts, Option P

input: <'P'>

output: <'P'> <;> <IsReceiptOpened[1]> <;> <Payment0Amount[1..13]> <;> <Payment1Amount[1..13]> <;> <Payment2Amount[1..13]> <;> <Payment3Amount[1..13]>

<;> < Payment4Amount[1..13]> <;> < Payment5Amount[1..13]> <;>

<Payment6Amount[1..13]> <;> <Payment7Amount[1..13]> <;> <Payment8Amount[1..13]>

<;> <Payment9Amount[1..13]> <;> <Payment10Amount[1..13]> <;>

<Payment11Amount[1..13]>

FPR operation: Provides information about the payments in current receipt. This command is valid after receipt closing also.

Input data:

'P' 1 symbol 'P' for option

Output data:

'P' 1 symbol 'P' for option IsReceiptOpened 1 symbol with value:

> - '0' - No - '1' - Yes

Payment0Amount Up to 13 symbols for type 0 payment amount Up to 13 symbols for type 1 payment amount Payment1Amount Up to 13 symbols for type 2 payment amount Payment2Amount Up to 13 symbols for type 3 payment amount Payment3Amount Up to 13 symbols for type 4 payment amount Payment4Amount Up to 13 symbols for type 5 payment amount Payment5Amount Up to 13 symbols for type 6 payment amount Payment6Amount Up to 13 symbols for type 7 payment amount Payment7Amount Up to 13 symbols for type 8 payment amount Payment8Amount Up to 13 symbols for type 9 payment amount Payment9Amount Up to 13 symbols for type 10 payment amount Payment10Amount Payment11Amount Up to 13 symbols for type 11 payment amount

zfpdef:ReadCurrentOrLastReceiptPaymentAmounts()

2.7.32. Command: 72h / r – Read information about last receipt QR barcode data, Option B

input: <*'B'*>

output: <QRcodeData[60]>

FPR operation: Provides information about the QR code data in last issued receipt.

Input data:

'B' 1 symbol 'B' for option

Output data:

QRcodeData Up to 60 symbols for last issued receipt QR code data separated by

symbol '*' in format: FM Number*Receipt Number*Receipt

Date*Receipt Hour*Receipt Amount

zfpdef:ReadLastReceiptQRcodeData()

2.7.33. Command: 72h / r – Read information about specified number receipt QR barcode data, Option b

input: <'b'><:><RcpNum[6]>

output: <QRcodeData[60]>

FPR operation: Provides information about the QR code data in specified number

issued receipt.

Input data:

'B' 1 symbol 'B' for option

RcpNum 6 symbols with format ######

Output data:

QRcodeData Up to 60 symbols for last issued receipt QR code data separated by

symbol '*' in format: FM Number*Receipt Number*Receipt

Date*Receipt Hour*Receipt Amount

zfpdef: ReadSpecifiedReceiptQRcodeData(RcpNum)

2.7.34. Command: 72h / r – Read electronic receipt by number with QR code data, Option e

input: <'e'><;><RcpNum[6]>

output: ACK+

FPR operation: Starts session for reading electronic receipt by number with its QR

code data in the end.

Input data :

'e' 1 symbol 'e' for option

RcpNum 6 symbols with format ######

Output data: n. a.

zfpdef: ReadElectronicReceipt_QR_Data(RcpNum)

2.7.35. Command: 72h / r – Read electronic receipt by number with ASCII specified QR symbol, Option E

input: <'E'> <;> <RcpNum[6]> <;> <QRSymbol[1]>

output: ACK+

FPR operation: Starts session for reading electronic receipt by number with

specified ASCII symbol for QR code block.

Input data :

'E' 1 symbol 'E' for option

RcpNum 6 symbols with format ######

QRSymbol 1 symbol for QR code drawing image

Output data: n. a.

zfpdef: ReadElectronicReceipt_QR_ASCII(RcpNum, QRSymbol)

2.7.36. Command: 72h / r – Read electronic receipt by number with Base64 encoded QR, Option E

input: <'E'> <;> <RcpNum[6]> <;> <QRSymbol[',']>

output: ACK+

FPR operation: Starts session for reading electronic receipt by number with

Base64 encoded BMP QR code.

Input data :

'E' 1 symbol 'E' for option

RcpNum 6 symbols with format ######

QRSymbol 1 symbol with value ','

Output data: n. a.

zfpdef: ReadElectronicReceipt_QR_BMP(RcpNum)

2.7.37. Command: 73h / s- Read last daily report info

input: n. a.

output:<LastZDailyReportDate "DD-MM-YYYY"> <;> <LastZDailyReportNum[1..4]>

<;> <LastRAMResetNum[1..4]> <;> <TotalReceiptCounter[6]> <;>
<DateTimeLastFiscRec "DD-MM-YYYY HH:MM"> <;> <EJNum[2]> <;>
<LastReceiptType[1]>

FPR operation: Read date and number of last Z-report and last RAM reset event.

6 symbols for the total number of receipts in format ######

Input data : n. a. Output data :

LastZDailyReportDate
LastZDailyReportNum
Up to 4 symbols for the number of the last RAM reset
Up to 4 symbols for the number of the last RAM reset

TotalReceiptCounter DateTimeLastFiscRec EJNum

Pec Date Time parameter in format: DD-MM-YYYY HH:MM Up to 2 symbols for number of EJ

LastReceiptType (Receipt and Printing type) 1 symbol with value:

'0' - Sales receipt printing'2' - Non fiscal receipt

- '4' - Storno receipt

'1' – Invoice sales receipt
'5' – Invoice Credit note

zfpdef: ReadLastDailyReportInfo()

2.7.38. Command: 74h / t – Read free FM reporting records

input: n. a.

output:<FreeFMrecords[4]>

FPR operation: Read the number of the remaining free records for Z-report in the

Fiscal Memory.

Input data: n. a.

Output data:

FreeFMrecords 4 symbols for the number of free records for Z-report in the FM

zfpdef: ReadFMfreeRecords()

2.8. REPORTS PRINTING COMMANDS

Set of commands for printing of reports generated by FD.

2.8.1. Command: 76h / v – Print department report

input: <OptionZeroing[1]>

output: ACK

FPR operation: Print a department report with or without zeroing ('Z' or 'X').

Input data:

OptionZeroing (Parameter Zero) 1 symbol with value:

- 'Z' - Zeroing

- 'X' - Without zeroing

Output data : n. a.

zfpdef: PrintDepartmentReport(OptionZeroing)

2.8.2. Command: 77h / w - Print special events FM report

input: n. a. output: ACK

FPR operation: Print whole special FM events report.

Input data : n. a. Output data : n. a.

zfpdef: PrintSpecialEventsFMreport()

2.8.3. Command: 77h / w - Print brief FM payments report

input: <Option['P']>
output: ACK

FPR operation: Prints a brief payments from the FM.

Input data:

Option 1 symbol with value 'P'

Output data : n. a.

zfpdef: PrintBriefFMPaymentsReport()

2.8.3. Command: 77h / w - Print brief FM Departments report

input: <Option['D']>
output: ACK

FPR operation: Prints a brief Departments report from the FM.

Input data:

Option 1 symbol with value 'D'

Output data : n. a.

zfpdef: PrintBriefFMDepartmentsReport()

2.8.4. Command: 78h / x – Print detailed FM report by number of Z report blocks

input: <StartZNum[4]> <;> <EndZNum[4]>

output: ACK

FPR operation: Print a detailed FM report by initial and end FM report number.

Input data :

StartZNum 4 symbols for the initial report number included in report, format ####

EndZNum 4 symbols for the final report number included in report, format ####

Output data: n. a.

zfpdef: PrintDetailedFMReportByZBlocks(StartNo, EndNo)

2.8.5. Command: 78h / x – Print detailed FM payments report by number of Z report blocks

input: <*StartZNum*[4]> <;> <*EndZNum*[4]> <;> <*Option*['P']>

output: ACK

FPR operation: Print a detailed FM payments report by initial and end Z report

number.

Input data:

StartZNum 4 symbols for initial FM report number included in report, format ####

EndZNum 4 symbols for final FM report number included in report, format ####

Option 1 symbol 'P'

Output data: n. a.

zfpdef: PrintDetailedFMPaymentsReportByZBlocks(StartNo, EndNo)

2.8.6. Command: 78h / x – Print detailed FM Departments report by number of Z report blocks

input: <*StartZNum*[4]> <;> <*EndZNum*[4]> <;> <*Option*['D']>

output: ACK

FPR operation: Print a detailed FM Departments report by initial and end Z report

number.

Input data:

StartZNum 4 symbols for initial FM report number included in report, format ####

EndZNum 4 symbols for final FM report number included in report, format ####

Option 1 symbol 'D'

Output data: n. a.

zfpdef: PrintDetailedFMDepartmentsReportByZBlocks(StartNo, EndNo)

2.8.7. Command: 79h / y – Print brief FM report by number of Z report blocks

input: <StartZNum[4]> <;> <EndZNum[4]>

output: ACK

FPR operation: Print a brief FM report by initial and end FM report number.

Input data :

StartZNum 4 symbols for the initial FM report number included in report, format ####

EndZNum 4 symbols for the final FM report number included in report, format ####

Output data: n. a.

zfpdef: PrintBriefFMReportByZBlocks(StartNo, EndNo)

2.8.8. Command: 79h / y - Print brief FM payments report by number of Z report blocks

input: <*StartZNum*[4]> <;> <*EndZNum*[4]> <;> <*Option*['P']>

output: ACK

FPR operation: Print a brief FM payments report by initial and end FM report

number.

Input data:

StartZNum 4 symbols for the initial FM report number included in report, format ####

EndZNum 4 symbols for the final FM report number included in report, format ####

Option 1 symbol 'P'

Output data: n. a.

zfpdef: PrintBriefFMPaymentsReportByZBlocks(StartNo, EndNo)

2.8.9. Command: 79h / y – Print brief FM Departments report by number of Z report blocks

input: <StartZNum[4]> <;> <EndZNum[4]> <;> <Option['D']>

output: ACK

FPR operation: Print a brief FM Departments report by initial and end Z report

number. *Input data :*

StartZNum 4 symbols for the initial FM report number included in report, format ####

EndZNum 4 symbols for the final FM report number included in report, format ####

Option 1 symbol 'P'

Output data: n. a.

zfpdef: PrintBriefFMDepartmentsReportByZBlocks(StartNo, EndNo)

2.8.10. Command: 7Ah / z - Print detailed FM report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY">

output: ACK

FPR operation: Prints a detailed FM report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Output data: n. a.

zfpdef: PrintDetailedFMReportByDate(StartDate, EndDate)

2.8.11. Command: 7Ah / z - Print detailed FM payments report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <Option['P']>

output: ACK

FPR operation: Print a detailed FM payments report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Option 1 symbol 'P'

Output data: n. a.

zfpdef: PrintDetailedFMPaymentsReportByDate(StartDate, EndDate)

2.8.12. Command: 7Ah / z – Print detailed FM Departments report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <Option['D']>

output: ACK

FPR operation: Print a detailed FM Departments report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Option 1 symbol 'D'

Output data: n. a.

zfpdef: PrintDetailedFMDepartmentsReportByDate(StartDate, EndDate)

2.8.13. Command: 7Bh / { - Print brief FM report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY">

output: ACK

FPR operation: Print a brief FM report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Output data: n. a.

zfpdef: PrintBriefFMReportByDate(StartDate, EndDate)

2.8.14. Command: 7Bh / { - Print brief FM payments report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <Option['P']>

output: ACK

FPR operation: Print a brief FM payments report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Option 1 symbol 'P'

Output data: n. a.

zfpdef: PrintBriefFMPaymentsReportByDate(StartDate, EndDate)

2.8.15. Command: 7Bh / { – Print brief FM Departments report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <Option['D']>

output: ACK

FPR operation: Print a brief FM Departments report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Option 1 symbol 'D'

Output data: n. a.

zfpdef: PrintBriefFMDepartmentsReportByDate(StartDate, EndDate)

2.8.16. Command: 7Ch / | - Print daily fiscal report X or Z

input: <OptionZeroing[1]>

output: ACK

FPR operation: Depending on the parameter prints:

- daily fiscal report with zeroing and fiscal memory record, preceded by Electronic Journal report print ('Z');
- daily fiscal report without zeroing ('X');

Input data:

OptionZeroing 1 character with following values:

- 'Z' - Zeroing

- 'X' - Without zeroing

Output data: n.a.

zfpdef: PrintDailyReport(OptionZeroing)

2.8.17. Command: 7Ch / | - Print/Store Electronic Journal report from date do date

input:<ReportStorage[2]> <;> <'D'> <;> <StartRepFromDate "DDMMYY"> <;>
<EndRepFromDate "DDMMYY">

output: ACK

FPR operation: Print or store Electronic Journal Report by initial and end date.

Input data:

ReportStorage (EJ Report storage) 1 character with value:

'J1' – Printing'J2' – USB storage'J4' – SD card storage

'D' 1 symbol 'D'

StartRepFromDate 6 symbols for initial date in the DDMMYY format EndRepFromDate 6 symbols for final date in the DDMMYY format

Output data: n. a.

zfpdef: PrintOrStoreEJByDate(StartDate, EndDate)

2.8.18. Command: 7Ch / | - Print Electronic Journal report from date do date with selected documents content

input: <'j1'> <;> <'X'> <;> <FlagsReceipts [1]> <;> <FlagsReports [1]> <;> <'D'> <:> <StartRepFromDate "DDMMYY"> <:> <EndRepFromDate "DDMMYY">

output: ACK

FPR operation: Print Electronic Journal Report by initial and end date, and selected documents content. FlagsReceipts is a char with bits representing the receipt types. FlagsReports is a char with bits representing the report type.

Input data:

'j1' 2 symbols with value 'j1' Ϋ́ 1 symbol with value 'X'

FlagsReceipts (Receipts included in EJ) 1 symbol for Receipts included in EJ:

> Flags.7=0 Flags.6=1

Flags.5=1 Yes, Flags.5=0 No (Include PO) Flags.4=1 Yes, Flags.4=0 No (Include RA)

Flags.3=1 Yes, Flags.3=0 No (Include Credit Note) Flags.2=1 Yes, Flags.2=0 No (Include Storno Rcp) Flags.1=1 Yes, Flags.1=0 No (Include Invoice) Flags.0=1 Yes, Flags.0=0 No (Include Fiscal Rcp)

1 symbol with value ";"

FlagsReports (Reports included in EJ) 1 symbol for Reports included in EJ:

> Flags.7=0 Flags.6=1 Flags.5=0

Flags.4=1 Yes, Flags.4=0 No (Include FM reports) Flags.3=1 Yes, Flags.3=0 No (Include Other reports) Flags.2=1 Yes, Flags.2=0 No (Include Daily X) Flags.1=1 Yes, Flags.1=0 No (Include Daily Z) Flags.0=1 Yes, Flags.0=0 No (Include Duplicates)

'D' 1 symbol 'D'

StartRepFromDate 6 symbols for initial date in the DDMMYY format *EndRepFromDate* 6 symbols for final date in the DDMMYY format

Output data: n. a.

zfpdef: PrintEJByDateCustom(FlagsReceipts, FlagsReports, StartDate, EndDate)

2.8.19. Command: 7Ch / | - Print/Store Electronic Journal report from receipt number to receipt number

input: <ReportStorage[2]> <;> <'N'> <;> <StartRcpNum[6]> <;> <EndRcpNum[6]>

output: ACK

FPR operation: Print or store Electronic Journal Report from receipt number to receipt number.

Input data:

ReportStorage (EJ Report storage) 1 character with value:

- 'J1' - Printing - 'J2' - USB storage - 'J4' - SD card storage

'N' 1 symbol 'N'

StartRcpNum 6 symbols for initial receipt number included in report, in format #####. **EndRcpNum** 6 symbols for final receipt number included in report in format #####.

Output data: n. a.

zfpdef: PrintOrStoreEJByRcpNum(ReportStorage, StartNo, EndNo)

2.8.20. Command: 7Ch / | - Print Electronic Journal report from receipt number to receipt number with selected documents content

input: <"j1'> <;> <"X'> <;> <FlagsReceipts [1]> <;> <FlagsReports [1]> <;> <|N'> <;> <StartRcpNum[6]> <;> <EndRcpNum[6]>

output: ACK

FPR operation: Print Electronic Journal Report from receipt number to receipt number and selected documents content. FlagsReceipts is a char with bits representing the receipt types. FlagsReports is a char with bits representing the report type.

Input data:

'j1''X'2 symbols with value 'j1'1 symbol with value 'X'

FlagsReceipts (Receipts included in EJ) 1 symbol for Receipts included in EJ:

Flags.7=0 Flags.6=1

Flags.5=1 Yes, Flags.5=0 No (Include PO) Flags.4=1 Yes, Flags.4=0 No (Include RA)

Flags.3=1 Yes, Flags.3=0 No (Include Credit Note) Flags.2=1 Yes, Flags.2=0 No (Include Storno Rcp) Flags.1=1 Yes, Flags.1=0 No (Include Invoice) Flags.0=1 Yes, Flags.0=0 No (Include Fiscal Rcp)

;' 1 symbol with value ';'

FlagsReports (Reports included in EJ) 1 symbol for Reports included in EJ:

Flags.7=0 Flags.6=1 Flags.5=0

Flags.4=1 Yes, Flags.4=0 No (Include FM reports)
Flags.3=1 Yes, Flags.3=0 No (Include Other reports)
Flags.2=1 Yes, Flags.2=0 No (Include Daily X)
Flags.1=1 Yes, Flags.1=0 No (Include Daily Z)
Flags.0=1 Yes, Flags.0=0 No (Include Duplicates)

'N' 1 symbol 'N'

StartRcpNum 6 symbols for initial receipt number included in report in format #####. EndRcpNum 6 symbols for final receipt number included in report in format #####.

Output data: n. a.

zfpdef: PrintEJByRcpNumCustom(FlagsReceipts, FlagsReports, StartNo, EndNo)

2.8.21. Command: 7Ch / | - Print/Store Electronic Journal report by number of Z report blocks

input: <ReportStorage[2]> <;> <'Z'> <;> <StartZNum[4]> <;> <EndZNum[4]>

output: ACK

FPR operation: Print or store Electronic Journal Report from by number of Z report blocks.

Input data:

ReportStorage (EJ Report storage) 1 character with value:

'J1' – Printing'J2' – USB storage'J4' – SD card storage

'Z' 1 symbol 'Z'

StartZNum 4 symbols for initial number report in format ####
EndZNum 4 symbols for final number report in format ####

Output data: n. a.

zfpdef: PrintOrStoreEJByZBlocks(StartNo, EndNo)

2.8.22. Command: 7Ch / | - Print Electronic Journal report by number of Z report blocks with selected documents content

input: <";1"> <;> <"X"> <;> <FlagsReceipts [1]> <;> <FlagsReports [1]> <;> <'Z'> <;> <StartZNum[4]> <;> <EndZNum[4]> output: ACK

FPR operation: Print Electronic Journal Report by number of Z report blocks and selected documents content. FlagsReceipts is a char with bits representing the receipt types. FlagsReports is a char with bits representing the report type.

Input data:

*'*11' 2 symbols with value 'i1' ̈́Χ' 1 symbol with value 'X'

(Receipts included in EJ) 1 symbol for Receipts included in EJ: **FlagsReceipts**

> Flags.7=0 Flags.6=1

Flags.5=1 Yes, Flags.5=0 No (Include PO) Flags.4=1 Yes, Flags.4=0 No (Include RA)

Flags.3=1 Yes, Flags.3=0 No (Include Credit Note) Flags.2=1 Yes, Flags.2=0 No (Include Storno Rcp) Flags.1=1 Yes, Flags.1=0 No (Include Invoice) Flags.0=1 Yes, Flags.0=0 No (Include Fiscal Rcp)

1 symbol with value ';'

(Reports included in EJ) 1 symbol for Reports included in EJ: **FlagsReports**

> Flags.7=0 Flags.6=1 Flags.5=0

Flags.4=1 Yes, Flags.4=0 No (Include FM reports) Flags.3=1 Yes, Flags.3=0 No (Include Other reports) Flags.2=1 Yes, Flags.2=0 No (Include Daily X) Flags.1=1 Yes, Flags.1=0 No (Include Daily Z)

Flags.0=1 Yes, Flags.0=0 No (Include Duplicates)

'7' 1 symbol 'Z'

StartZNum 4 symbols for initial number report in format #### 4 symbols for final number report in format #### **EndZNum**

Output data: n. a.

zfpdef: PrintEJByZBlocksCustom(FlagsReceipts, FlagsReports, StartNo, EndNo)

2.8.23. Command: 7Ch / | - Print/Store Electronic Journal report from beginning to end

input: <ReportStorage[2]> <;> <'*'>

output: ACK

FPR operation: Print or store Electronic Journal report with all documents.

Input data:

ReportStorage (EJ Report storage) 1 character with value:

- 'J1' - Printing - 'J2' - USB storage - 'J4' - SD card storage 1 symbol '*'

Output data: n. a.

zfpdef: PrintOrStoreEJ()

2.8.24. Command: 7Ch / | – Print Electronic Journal report from beginning to end with selected documents content

input: <"j1"> <;> <"X"> <;> <FlagsReceipts [1]> <;> <FlagsReports [1]> <;> <"*'>

output: ACKFPR operation: Print Electronic Journal report with selected documents content.

FPR operation: Print Electronic Journal report with selected documents content. FlagsReceipts is a char with bits representing the receipt types. FlagsReports is a char with bits representing the report type.

Input data:

'j1''Z'2 symbols with value 'j1''X'1 symbol with value 'X'

FlagsReceipts (Receipts included in EJ) 1 symbol for Receipts included in EJ:

Flags.7=0 Flags.6=1

Flags.5=1 Yes, Flags.5=0 No (Include PO) Flags.4=1 Yes, Flags.4=0 No (Include RA)

Flags.3=1 Yes, Flags.3=0 No (Include Credit Note) Flags.2=1 Yes, Flags.2=0 No (Include Storno Rcp) Flags.1=1 Yes, Flags.1=0 No (Include Invoice) Flags.0=1 Yes, Flags.0=0 No (Include Fiscal Rcp)

;' 1 symbol with value ';'

FlagsReports (Reports included in EJ) 1 symbol for Reports included in EJ:

Flags.7=0 Flags.6=1 Flags.5=0

Flags.4=1 Yes, Flags.4=0 No (Include FM reports)
Flags.3=1 Yes, Flags.3=0 No (Include Other reports)
Flags.2=1 Yes, Flags.2=0 No (Include Daily X)
Flags.1=1 Yes, Flags.1=0 No (Include Daily Z)
Flags.0=1 Yes, Flags.0=0 No (Include Duplicates)

'*' 1 symbol '*'

Output data: n. a.

zfpdef: PrintEJCustom(FlagsReceipts, FlagsReports)

2.8.25. Command: 7Dh / } - Print operator's report

input: <OptionZeroing[1]> <;> <Number[1..2]>

output: ACK

FPR operation: Prints an operator's report for a specified operator (0 = all operators) with or without zeroing ('**Z**' or '**X**'). When a '**Z**' value is specified the report should include all operators.

Input data:

OptionZeroing 1 character (Parameter) with following values:

- 'Z' - Zeroing

- 'X' - Without zeroing

Number (Operator Number) Symbols from 0 to 20 corresponding to operator's number

,0 for all operators

Output data: n. a.

zfpdef: PrintOperatorReport(OptionZeroing, Number)

2.8.26. Command: 7Eh / ~ - Print article report

input: <OptionZeroing[1]>

output: ACK

FPR operation: Prints an article report with or without zeroing ('Z' or 'X').

Input data :

OptionZeroing 1 character (Parameter) with following values:

- 'Z' - Zeroing

- 'X' - Without zeroing

Output data: n. a.

zfpdef: PrintArticleReport(OptionZeroing)

2.8.27. Command: 7Fh / = Print detailed daily report

input: <OptionZeroing[1]>

output: ACK

FPR operation: Prints an extended daily financial report (an article report followed

by a daily financial report) with or without zeroing ('Z' or 'X').

Input data:

OptionZeroing 1 character (Parameter) with following values:

- 'Z' -Zeroing

- 'X' - Without zeroing

Output data: n. a.

zfpdef: PrintDetailedDailyReport(OptionZeroing)

2.8.28. Command: 52h / R – option X, Print Customer X or Z report

input: <OptionZeroing[1]>

output: ACK

FPR Operation: Print Customer X or Z report

Input data:

OptionZeroing 1 character (Parameter) with following values:

- 'Z' -Zeroing

- 'X' - Without zeroing

Output data: n.a.

zfpdef: PrintCustomerReport(OptionZeroing)

2.8.29. Command: 7Ch / | - Generate Z daily fiscal report without printing

input: <'Z'><;><'n'>
output: ACK

FPR operation: Generate Z-daily report without printing

Input data:

'Z' 1 symbol 'Z' 1 symbol 'n'

Output data: n.a.

zfpdef: ZDailyReportNoPrint()

2.9. REPORTS READING COMMANDS

Set of commands for reading of reports generated by FD.

2.9.1. Command: 78h / x – Read detailed FM report by number of Z report blocks

input: <StartZNum[4]> <;> <EndZNum[4]> <;> <'0'> <;> <OptionReading['8']>

output: ACK+

FPR operation: Read a detailed FM report by initial and end FM report number.

Input data :

StartZNum 4 symbols for the initial report number included in report, format ####

EndZNum 4 symbols for the final report number included in report, format ####

'0' 1 symbol with value '0' OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadDetailedFMReportByZBlocks(StartNo, EndNo)

2.9.2. Command: 78h / x – Read detailed FM payments report by number of Z report blocks

input: <*StartZNum*[4]> <;> <*EndZNum*[4]> <;> <*Option*['P']> <;>

<OptionReading['8']>
output: ACK+

FPR operation: Read a detailed FM payments report by initial and end Z report

number.

Input data :

StartZNum 4 symbols for initial FM report number included in report, format ####

EndZNum 4 symbols for final FM report number included in report, format ####

Option 1 symbol 'P'

OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadDetailedFMPaymentsReportByZBlocks(StartNo, EndNo)

2.9.3. Command: 78h / x – Read detailed FM Departments report by number of Z report blocks

input: <StartZNum[4]> <;> <EndZNum[4]> <;> <Option['D']> <;>

<OptionReading['8']>
 output: ACK+

FPR operation: Read a detailed FM Departments report by initial and end Z report

number.

Input data :

StartZNum 4 symbols for initial FM report number included in report, format ####

EndZNum 4 symbols for final FM report number included in report, format ####

Option 1 symbol 'D'

OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadDetailedFMDepartmentsReportByZBlocks(StartNo, EndNo)

2.9.4. Command: 79h / y – Read brief FM report by number of Z report blocks

input: <StartZNum[4]> <;> <EndZNum[4]> <;> <'0'> <;> <OptionReading['8']>

output: ACK+

FPR operation: Read a brief FM report by initial and end FM report number.

Input data:

StartZNum 4 symbols for the initial FM report number included in report, format ####

EndZNum 4 symbols for the final FM report number included in report, format ####

'0' 1 symbol with value '0' OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadBriefFMReportByZBlocks(StartNo, EndNo)

2.9.5. Command: 79h / y – Read brief FM payments report by number of Z report blocks

input: <StartZNum[4]> <;> <EndZNum[4]> <;> <Option['P']> <;>

<OptionReading['8']>
output: ACK+

FPR operation: Read a brief FM payments report by initial and end FM report

number. *Input data:*

StartZNum 4 symbols for the initial FM report number included in report, format ####

EndZNum 4 symbols for the final FM report number included in report, format ####

Option 1 symbol 'P'

OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadBriefFMPaymentsReportByZBlocks(StartNo, EndNo)

2.9.6. Command: 79h / y – Read brief FM Departments report by number of Z report blocks

input: <*StartZNum*[4]> <;> <*EndZNum*[4]> <;> <*Option*['D']> <;>

<OptionReading['8']>
output: ACK+

FPR operation: Read a brief FM Departments report by initial and end Z report

number.

Input data:

StartZNum 4 symbols for the initial FM report number included in report, format ####

EndZNum 4 symbols for the final FM report number included in report, format ####

Option 1 symbol 'P'

OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadBriefFMDepartmentsReportByZBlocks(StartNo, EndNo)

2.9.7. Command: 7Ah / z - Read detailed FM report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <'0'> <;>

<OptionReading['8']>
output: ACK+

FPR operation: Read a detailed FM report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

'0' 1 symbol with value '0' OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadDetailedFMReportByDate(StartDate, EndDate)

2.9.8. Command: 7Ah / z – Read detailed FM payments report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <OptionReading['8']>

output: ACK+

FPR operation: Read a detailed FM payments report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Option 1 symbol 'P'

OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadDetailedFMPaymentsReportByDate(StartDate, EndDate)

2.9.9. Command: 7Ah / z - Read detailed FM Departments report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <Option['D']> <;>

<OptionReading['8']>
 output: ACK+

FPR operation: Read a detailed FM Departments report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Option 1 symbol 'D'

OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadDetailedFMDepartmentsReportByDate(StartDate, EndDate)

2.9.10. Command: 7Bh / { - Read brief FM report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <'0'> <;>

<OptionReading['8']>
output: ACK+

FPR operation: Read a brief FM report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

'0' 1 symbol with value '0' OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadBriefFMReportByDate(StartDate, EndDate)

2.9.11. Command: 7Bh / { - Read brief FM payments report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <Option['P']> <;>
<OptionReading['8']>

output: ACK+

FPR operation: Read a brief FM payments report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Option 1 symbol 'P'

OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadBriefFMPaymentsReportByDate(StartDate, EndDate)

2.9.12. Command: 7Bh / { - Read brief FM Departments report by date

input: <StartDate "DDMMYY"> <;> <EndDate "DDMMYY"> <;> <OptionReading['8']>

output: ACK+

FPR operation: Read a brief FM Departments report by initial and end date.

Input data :

StartDate 6 symbols for initial date in the DDMMYY format EndDate 6 symbols for final date in the DDMMYY format

Option 1 symbol 'D'

OptionReading 1 symbol with value '8'

Output data: n. a.

zfpdef: ReadBriefFMDepartmentsReportByDate(StartDate, EndDate)

2.9.13. Command: 7Ch / | – Read Electronic Journal report from date do date

input: <ReportFormat[2]> <;> <'D'> <;> <StartRepFromDate "DDMMYY"> <;>
<EndRepFromDate "DDMMYY">

output: ACK+

FPR operation: Read Electronic Journal Report by initial to end date.

Input data:

ReportFormat (EJ Report format) 1 character with value

- 'J0' – Detailed EJ - 'J8' – Brief EJ

'D' 1 symbol 'D'

StartRepFromDate 6 symbols for initial date in the DDMMYY format EndRepFromDate 6 symbols for final date in the DDMMYY format

Output data: n. a.

zfpdef: ReadEJByDate(ReportFormat, StartRepFromDate, EndRepFromDate)

2.9.14. Command: 7Ch / | – Read/Store Electronic Journal report from date do date with selected documents content and format

input: <StorageReport[2]> <;> <CSVformat[1]> <;> <FlagsReceipts[1]> <;> <FlagsReports[1]> <;> <'D'> <;> <StartRepFromDate "DDMMYY"> <;> <EndRepFromDate "DDMMYY">

output: ACK+

FPR operation: Read or Store Electronic Journal Report by initial to end date, CSV format option and document content. If CSV format is set the content can includes only fiscal receipts. FlagsReceipts is a char with bits representing the receipt types. FlagsReports is a char with bits representing the report type.

Input data:

StorageReport (EJ Report storage) 2 characters with value:

- 'i0' - To PC

- 'j2' - To USB Flash Drive

- 'j4' - To SD card

CSVformat (CSV Format) 1 symbol with value:

- 'C' – Yes - 'X' – No

FlagsReceipts (Receipts included in EJ) 1 symbol for Receipts included in EJ:

Flags.7=0 Flags.6=1, 0=w

Flags.5=1 Yes, Flags.5=0 No (Include PO) Flags.4=1 Yes, Flags.4=0 No (Include RA)

Flags.3=1 Yes, Flags.3=0 No (Include Credit Note) Flags.2=1 Yes, Flags.2=0 No (Include Storno Rcp) Flags.1=1 Yes, Flags.1=0 No (Include Invoice) Flags.0=1 Yes, Flags.0=0 No (Include Fiscal Rcp)

;' 1 symbol with value ';'

FlagsReports (Reports included in EJ) 1 symbol for Reports included in EJ:

Flags.7=0 Flags.6=1, 0=w Flags.5=1, 0=w

Flags.4=1 Yes, Flags.4=0 No (Include FM reports)
Flags.3=1 Yes, Flags.3=0 No (Include Other reports)
Flags.2=1 Yes, Flags.2=0 No (Include Daily X)
Flags.1=1 Yes, Flags.1=0 No (Include Daily Z)
Flags.0=1 Yes, Flags.0=0 No (Include Duplicates)

'D' 1 symbol 'D'

StartRepFromDate 6 symbols for initial date in the DDMMYY format EndRepFromDate 6 symbols for final date in the DDMMYY format

Output data: n. a.

zfpdef: ReadEJByDateCustom(StorageReport, CSVformat, FlagsReceipts, FlagsReports, StartRepFromDate, EndRepFromDate)

2.9.15. Command: 7Ch / | – Read Electronic Journal report from receipt number to receipt number

input: <ReportFormat[2]> <;> <'N'> <;> <StartRcpNum[6]> <;> <EndRcpNum[6]>

output: ACK+

FPR operation: Read Electronic Journal Report from receipt number to receipt

number.

Input data:

ReportFormat (EJ Report format) 1 character with value

- 'J0' – Detailed EJ - 'J8' – Brief EJ

'N' 1 symbol 'N'

StartRcpNum 6 symbols for initial receipt number included in report in format ######

EndRcpNum 6 symbols for final receipt number included in report in format ######

Output data: n. a.

zfpdef: ReadEJByReceiptNum(ReportFormat, StartNo, EndNo)

2.9.16. Command: 7Ch / | – Read/Store Electronic Journal report from receipt number to receipt number with selected documents content and format

input: <StorageReport[2]> <;> <CSVformat[1]> <;> <FlagsReceipts[1]> <;> <FlagsReports[1]> <;> <(N'> <;> <StartRcpNum[6]> <;> <EndRcpNum[6]>
 output: ACK+

FPR operation: Read or Store Electronic Journal Report from receipt number to receipt number, CSV format option and document content. If CSV format is set the content can includes only fiscal receipts. FlagsReceipts is a char with bits representing the receipt types. FlagsReports is a char with bits representing the report type.

Input data:

StorageReport (EJ Report storage) 1 character with value

- 'j0' - To PC

- 'j2' - To USB Flash Drive

- 'j4' - To SD card

CSVformat 1 symbol with value:

- 'C' – Yes - 'X' - No

FlagsReceipts (Receipts included in EJ) 1 symbol for Receipts included in EJ:

Flags.7=0 Flags.6=1

Flags.5=1 Yes, Flags.5=0 No (Include PO) Flags.4=1 Yes, Flags.4=0 No (Include RA)

Flags.3=1 Yes, Flags.3=0 No (Include Credit Note) Flags.2=1 Yes, Flags.2=0 No (Include Storno Rcp) Flags.1=1 Yes, Flags.1=0 No (Include Invoice) Flags.0=1 Yes, Flags.0=0 No (Include Fiscal Rcp)

;' 1 symbol with value ';'

FlagsReports (Reports included in EJ) 1 symbol for Reports included in EJ:

Flags.7=0 Flags.6=1 Flags.5=0

Flags.4=1 Yes, Flags.4=0 No (Include FM reports)
Flags.3=1 Yes, Flags.3=0 No (Include Other reports)
Flags.2=1 Yes, Flags.2=0 No (Include Daily X)
Flags.1=1 Yes, Flags.1=0 No (Include Daily Z)
Flags.0=1 Yes, Flags.0=0 No (Include Duplicates)

'N' 1 symbol 'N'

StartRcpNum 6 symbols for initial receipt number included in report in format #####. EndRcpNum 6 symbols for final receipt number included in report in format ######.

Output data: n. a.

zfpdef: ReadEJByReceiptNumCustom(StorageReport, CSVformat,FlagsReceipts, FlagsReports, StartNo, EndNo)

2.9.17. Command: 7Ch / | – Reading Electronic Journal report from number Z report to number Z report

input: <ReportFormat[2]> <;> <!Z'> <;> <StartNo[4]> <;> <EndNo[4]>

output: ACK+

FPR operation: Reading Electronic Journal Report by number of Z report blocks.

Input data:

ReportFormat (EJ Report format) 1 character with value

- 'J0' – Detailed EJ - 'J8' – Brief EJ

'Z' 1 symbol 'Z'

StartNo 4 symbols for initial number report in format ####

EndNo 4 symbols for final number report in format ####

Output data: n. a.

zfpdef: ReadEJByZBlocks(ReportFormat, StartNo, EndNo)

2.9.17. Command: 7Ch / | - Read/Store Electronic Journal report by number of Z report blocks with selected documents content and format

input: <StorageReport[2]> <;> <CSVformat[1]> <;> <FlagsReceipts[1]> <;> <FlagsReports[1]> <;> <StartZNum[4]> <;> <EndZNum[4]>

output: ACK+

FPR operation: Read or Store Electronic Journal Report by number of Z report blocks, CSV format option and document content. If CSV format is set the content can includes only fiscal receipts. FlagsReceipts is a char with bits representing the receipt types. FlagsReports is a char with bits representing the report type.

Input data:

StorageReport (EJ Report storage) 1 character with value

- 'j0' – To PC

- 'j2' - To USB Flash Drive

- 'j4' - To SD card

CSVformat 1 symbol with value:

- 'C' – Yes - 'X' - No

FlagsReceipts (Receipts included in EJ) 1 symbol for Receipts included in EJ:

Flags.7=0 Flags.6=1

Flags.5=1 Yes, Flags.5=0 No (Include PO) Flags.4=1 Yes, Flags.4=0 No (Include RA)

Flags.3=1 Yes, Flags.3=0 No (Include Credit Note) Flags.2=1 Yes, Flags.2=0 No (Include Storno Rcp) Flags.1=1 Yes, Flags.1=0 No (Include Invoice) Flags.0=1 Yes, Flags.0=0 No (Include Fiscal Rcp)

";" 1 symbol with value ";"

FlagsReports (Reports included in EJ) 1 symbol for Reports included in EJ:

Flags.7=0 Flags.6=1 Flags.5=0

Flags.4=1 Yes, Flags.4=0 No (Include FM reports)
Flags.3=1 Yes, Flags.3=0 No (Include Other reports)
Flags.2=1 Yes, Flags.2=0 No (Include Daily X)
Flags.1=1 Yes, Flags.1=0 No (Include Daily Z)
Flags.0=1 Yes, Flags.0=0 No (Include Duplicates)

'Z' 1 symbol 'Z'

StartZNum 4 symbols for initial number report in format ####
EndZNum 4 symbols for final number report in format ####

Output data: n. a.

zfpdef: ReadEJByZBlocksCustom(StorageReport, CSVformat, FlagsReceipts, FlagsReports, StartNo, EndNo)

2.9.18. Command: 7Ch / | – Read Electronic Journal report from beginning to end

input: <ReportFormat[2]> <;> <'*'>

output: ACK+

FPR operation: Read Electronic Journal report with all documents.

Input data:

ReportFormat (EJ Report format) 1 character with value
- 'J0' – Detailed EJ
- 'J8' – Brief EJ

'*'
1 symbol '*'

Output data: n. a.

zfpdef: ReadEJ(ReportFormat)

2.9.19. Command: 7Ch / | – Read/Store Electronic Journal report from beginning to end with selected documents content and format

input: <StorageReport[2]> <;> <CSVformat[1]> <;> <FlagsReports[1]> <;> <'*'>
output: ACK+

FPR operation: Read or Store Electronic Journal report by CSV format option and document content selecting. If CSV format is set the content can includes only fiscal receipts. FlagsReceipts is a char with bits representing the receipt types. FlagsReports is a char with bits representing the report type.

Input data:

```
StorageReport (EJ Report storage) 1 character with value
                 - 'i0' - To PC
                 - 'i2' - To USB Flash Drive
                 - 'j4' - To SD card
                 1 symbol with value:
CSVformat
                 - 'C' - Yes
                 - 'X' - No
FlagsReceipts
                 (Receipts included in EJ) 1 symbol for Receipts included in EJ:
                 Flags.7=0
                 Flags.6=1
                 Flags.5=1 Yes, Flags.5=0 No (Include PO)
                 Flags.4=1 Yes, Flags.4=0 No (Include RA)
                 Flags.3=1 Yes, Flags.3=0 No (Include Credit Note)
                 Flags.2=1 Yes, Flags.2=0 No (Include Storno Rcp)
                 Flags.1=1 Yes, Flags.1=0 No (Include Invoice)
                 Flags.0=1 Yes, Flags.0=0 No (Include Fiscal Rcp)
                 1 symbol with value ";"
FlagsReports
                 (Reports included in EJ) 1 symbol for Reports included in EJ:
                 Flags.7=0
                 Flags.6=1
                 Flags.5=0
                 Flags.4=1 Yes, Flags.4=0 No (Include FM reports)
                 Flags.3=1 Yes, Flags.3=0 No (Include Other reports)
                 Flags.2=1 Yes, Flags.2=0 No (Include Daily X)
                 Flags.1=1 Yes. Flags.1=0 No (Include Daily Z)
                 Flags.0=1 Yes, Flags.0=0 No (Include Duplicates)
                 1 symbol '*'
```

Output data: n. a.

zfpdef: ReadEJCustom(StorageReport, CSVformat, FlagsReceipts, FlagsReports)

2.10. SETTINGS LAN/WIFI/BLUETOOTH/GPRS COMMANDS

Set/Get commands for programming/reading of FD settings for LAN, WiFi, Bluetooth, GRPS.

2.10.1. Command: 4Eh / N – Read Device modules support by Firmware

input: <'R'><;><'D'><;><'S'>

output: <'R'><;><'D'><;><'S'><;><LAN[1]><;><WiFi[1]><;><GPRS[1]><;><BT[1]>

FPR operation: Provide an information about modules supported by device's

firmware

Input data:

'R' 1 symbol with value 'R' 'D' 1 symbol with value 'D' 'S' 1 symbol with value 'S'

Output data:

'R' 1 symbol with value 'R'

'D' 1 symbol with value 'D' for installed modules 'S' 1 symbol with value 'S' for firmware device support

LAN 1 symbol for LAN suppor

- '0' – No - '1' – Yes

WiFi 1 symbol for WiFi support

- '0' – No - '1' – Yes

GPRS 1 symbol for GPRS support

- '0' - No - '1' - Yes

BT (Bluetooth) 1 symbol for Bluetooth support

- '0' - No - '1' - Yes

zfpdef: ReadDeviceModuleSupportByFirmware()

2.10.2. Command: 4Eh / N - Read Device modules support

input: <'R'><;><'D'><;><'D'>

output: <*'R'*><;><*'D'*><;><*'D'*><;><*WiFi*[1]><;><*GPRS*[1]><;><*BT*[1]>

Input data:

'R' 1 symbol with value 'R'
'D' 1 symbol with value 'D'
'D' 1 symbol with value 'D'

Output data:

'R' 1 symbol with value 'R'

'D' 1 symbol with value 'D' for installed modules

'D' 1 symbol with value 'D' for firmware device support

LAN 1 symbol for LAN suppor

- '0' – No - '1' – Yes

WiFi 1 symbol for WiFi support

- '0' – No - '1' – Yes

GPRS 1 symbol for GPRS support

- '0' – No - '1' – Yes

BT (Bluetooth) 1 symbol for Bluetooth support

- '0' – No - '1' – Yes

zfpdef: ReadDeviceModuleSupport()

2.10.3. Command: 4Eh / N - Read TCP password

input: <'*R*'><;><'*Z*'><;><'1'>

output: <'R'><;><'Z'><;><'1'><;><PassLength[1..3]><;><Password[100]> **FPR operation:** Provides information about device's TCP password.

Input data:

'R' 1 symbol with value 'R'
'Z' 1 symbol with value 'Z'
'1' 1 symbol with value '1'

Output data:

'R' 1 symbol with value 'R' 'Z' 1 symbol with value 'Z' 1 symbol with value '1' 1 symbol with value '1'

PassLength (Length) Up to 3 symbols for the password length

Password Up to 100 symbols for the TCP password

zfpdef: ReadTCP_Password()

2.10.4. Command: 4Eh / N - Read TCP Auto Start status

input: <'R'><;><'Z'><;><'2'>

output: <'R'><;><'Z'><;><'2'><;><TCPAutoStart[1]> **FPR operation:** Read device TCP Auto Start status

Input data:

'R' 1 symbol with value 'R' 'Z' 1 symbol with value 'Z' 2' 1 symbol with value '2'

Output data:

'R' 1 symbol with value 'R' 'Z' 1 symbol with value 'Z' 1 symbol with value '1' 1 symbol with value '1'

TCPAutoStart 1 symbol for TCP auto start status

- '0' – No - '1' – Yes

zfpdef: ReadTCP AutoStartStatus()

2.10.5. Command: 4Eh / N - Read Device TCP addresses

input: <'R'><;><'T'><;><AddressType[1]>

output: <'R'><;><T'><;>< AddressType[1]><;><DeviceAddress[15]>

FPR operation: Provides information about device's IP address, subnet mask,

gateway address, DNS address.

Input data:

'R' 1 symbol with value 'R' 'T' 1 symbol with value 'T'

AddressType (Address) 1 symbol with value:

'2' – IP address
'3' – Subnet Mask
'4' – Gateway address
'5' – DNS address

Output data:

'R' 1 symbol with value 'R' 'T' 1 symbol with value 'T'

AddressType (Address) 1 symbol with value:

- '2' – IP address
- '3' – Subnet Mask
- '4' – Gateway address
- '5' – DNS address

DeviceAddress 15 symbols for the device's addresses

zfpdef: ReadTCP_Addresses(AddressType)

2.10.6. Command: 4Eh / N - Read TCP DHCP status

input: <*'R'*><;><*'T'*><;><*'1'*>

output: <'R'><;><'T'><;><DhcpStatus[1]>

FPR operation: Provides information about device's DHCP status

Input data:

'R' 1 symbol with value 'R'
'T' 1 symbol with value 'T'
'1' 1 symbol with value '1'

Output data:

'R' 1 symbol with value 'R'
'T' 1 symbol with value 'T'
'1' 1 symbol with value '1'

DhcpStatus (DHCP Status) 1 symbol for device's DHCP status

- '0' - Disabled - '1' - Fnabled

zfpdef: ReadDHCP_Status()

2.10.7. Command: 4Eh / N – Scan and print available WiFi networks

input: <*'R'*><*;*><*'W'*><*;*><*'S'*>

output: ACK

FPR operation: Scan and print all available WiFi networks

Input data:

'R''W'1 symbol with value 'R''S'1 symbol with value 'W''S'

Output data:n. a.

zfpdef: ScanAndPrintWiFiNetworks()

2.10.8. Command: 4Eh / N - Read TCP WiFi network name

input: <'R'><;><'W'><;><'N'>

output: <'R'><;><'W'><;><'N'><;><WiFiNameLength[1..3]><;><WiFiNetworkName[100]>

FPR operation: Read device's connected WiFi network name

Input data:

'R' 1 symbol with value 'R'
'W' 1 symbol with value 'W'
'N' 1 symbol with value 'N'

Output data:

'R' 1 symbol with value 'R' 'W' 1 symbol with value 'W' 'N' 1 symbol with value 'N'

WiFiNameLength (Length) Up to 3 symbols for the WiFi name length

WiFiNetworkName (Name) Up to 100 symbols for the device's WiFi network name

zfpdef: ReadWiFi NetworkName()

2.10.9. Command: 4Eh / N - Read TCP WiFi password

input: <'R'><;><'W'><;><'P'>

output: <'R'><;><'W'><;><'P'><;><PassLength[1..3]><;><Password[100]>

FPR operation: Read device's connected WiFi network password

Input data:

'R' 1 symbol with value 'R'
'W' 1 symbol with value 'W'
'P' 1 symbol with value 'P'

Output data:

'R' 1 symbol with value 'R'
'W' 1 symbol with value 'W'
'P' 1 symbol with value 'P'

PassLength (Length) Up to 3 symbols for the WiFi password length Up to 100 symbols for the device's WiFi password

zfpdef: ReadWiFi Password()

2.10.10. Command: 4Eh / N - Read TCP module - LAN or WiFi

input: <'R'><;><'Z'><;><'U'>

output: <'R'><;><'Z'><;><'U'><;><UsedModule[1]>

FPR operation: Read the used TCP module for communication – Lan or WiFi

Input data:

'R' 1 symbol with value 'R'
'Z' 1 symbol with value 'Z'
'U' 1 symbol with value 'U'

Output data:

'R' 1 symbol with value 'R'
'Z' 1 symbol with value 'Z'
'U' 1 symbol with value 'U'

UsedModule (Module) 1 symbol with value:

- '1' – LAN - '2' – WiFi

zfpdef: ReadTCP_UsedModule()

2.10.11. Command: 4Eh / N - Read TCP idle timeout

input: <'R'><;><'Z'><;><'l'>

output: <'R'><;><'Z'><;><'I'><;><!dleTimeout[4]>

FPR operation: Provides information about device's idle timeout. This timeout is seconds in which the connection will be closed when there is an inactivity. This information is available if the device has LAN or WiFi. Maximal value – 7200, minimal value 0. 0 is for never close the connection.

Input data:

'R' 1 symbol with value 'R'
'B' 1 symbol with value 'B'
'I' 1 symbol with value 'I'

Output data:

'R' 1 symbol with value 'R'
'B' 1 symbol with value 'B'
'I' 1 symbol with value 'I'

IdleTimeout 4 symbols for password in format ####

zfpdef: Read_IdleTimeout()

2.10.12. Command: 4Eh / N - Read Bluetooth password

input: <'R'><;><'B'><;><'P'>

output: <'R'><;><'B'><;><'P'><;><PassLength[1..3]><;><Password[100]> **FPR operation:** Provides information about device's Bluetooth password.

Input data:

'R' 1 symbol with value 'R' 'B' 1 symbol with value 'B' 'P' 1 symbol with value 'P'

Output data:

'R' 1 symbol with value 'R'
'B' 1 symbol with value 'B'
'P' 1 symbol with value 'P'

PassLength (Length) Up to 3 symbols for the BT password length

Password Up to 100 symbols for the BT password

zfpdef: ReadBluetooth Password()

2.10.13. Command: 4Eh / N - Read Bluetooth status

input: <'R'><;><'B'><;><'S'>

output: <'R'><;><'B'><;><'S'><;><BTstatus[1]>

FPR operation: Providing information about if the device's Bluetooth module is

enabled or disabled.

Input data:

'R' 1 symbol with value 'R'
'B' 1 symbol with value 'B'
'S' 1 symbol with value 'S'

Output data:

'R'
'B'
1 symbol with value 'R'
'B'
1 symbol with value 'B'
'S'
1 symbol with value 'S'
BTstatus
(Status) 1 symbol with value:

- '0' - Disabled - '1' - Enabled

zfpdef: ReadBluetooth_Status()

2.10.14. Command: 4Eh / N - Set TCP password

input: <'P'><;><'Z'><;><'1'><;><PassLength[1..3]><;><Password[100]>

output: ACK

FPR operation: Program device's TCP password. To apply use -

SaveNetworkSettings()

Input data:

'P' 1 symbol with value 'S' 'Z' 1 symbol with value 'Z' '1' 1 symbol with value '1'

PassLength (Password length) Up to 3 symbols for the password len

Password Up to 100 symbols for the TCP password

Output data: n. a.

zfpdef: SetTCPpassword(Password_Length, Password)

2.10.15. Command: 4Eh / N - Set TCP Auto Start

input: <'P'><;><'Z'><;><TCPAutoStart[1]>

output: ACK

FPR operation: Set device's TCP autostart . To apply use -SaveNetworkSettings()

Input data:

'P'
1 symbol with value 'S'
'Z'
1 symbol with value 'Z'
2 1 symbol with value '2'

TCPAutoStart (Auto Start) 1 symbol with value:

- '0' – No - '1' - Yes

Output data: n. a.

zfpdef: SetTCP_AutoStart(TCPAutoStart)

2.10.16. Command: 4Eh / N - Set Device TCP addresses

input: <'P'><;><T'><;><AddressType[1]> <;><DeviceAddress[15]>

output: ACK

FPR operation: Program device's network IP address, subnet mask, gateway

address, DNS address. To apply use -SaveNetworkSettings()

Input data:

'P' 1 symbol with value 'P'
'T' 1 symbol with value 'T'
AddressType (Type) 1 symbol with value:

'2' – IP address'3' – Subnet Mask'4' – Gateway address'5' – DNS address

DeviceAddress (Device address)15 symbols for the selected address

Output data: n. a.

zfpdef: SetDeviceTCP_Addresses(AddressType, DeviceAddress)

2.10.17. Command: 4Eh / N - Set TCP DHCP enabled

input: <'P'><;><'T'><;><'1'><;><DHCPEnabled[1]>

output: ACK

FPR operation: Program device's TCP network DHCP enabled or disabled. To

apply use -SaveNetworkSettings()

Input data:

'P'
'T'
1 symbol with value 'S'
'T'
1 symbol with value 'T'
'1'
1 symbol with value '1'
DHCPEnabled (Status)1 symbol with value:

- '0' - Disabled - '1' - Enabled

Output data: n. a.

zfpdef: SetDHCP_Enabled(DHCP_Status)

2.10.18. Command: 4Eh / N - Set TCP WiFi network name

input: <'P'><;><'W'><;><'N'><;><WiFiNameLength[1..3]><;><WiFiNetworkName[100]>

output: ACK

FPR operation: Program device's WiFi network name where it will connect. To

apply use -SaveNetworkSettings()

Input data:

'P' 1 symbol with value 'P'
'W' 1 symbol with value 'W'
'N' 1 symbol with value 'N'

WiFiNameLength (Length) Up to 3 symbols for the WiFi network name len

WiFiNetworkName (Name) Up to 100 symbols for the device's WiFi ssid network name

Output data:

zfpdef: SetWiFi NetworkName(NetworkName Length, NetworkName)

2.10.19. Command: 4Eh / N – Set TCP WiFi password

input: <'P'><;><'W'><;><'P'><;><PassLength[1..3]><;><Password[100]>

output: ACK

FPR operation: Program device's WiFi network password where it will connect. To

apply use -SaveNetworkSettings()

Input data:

'P' 1 symbol with value 'P'
'W' 1 symbol with value 'W'
'P' 1 symbol with value 'P'

PassLength (Length) Up to 3 symbols for the WiFi password len Password Up to 100 symbols for the device's WiFi password

Output data: n. a.

zfpdef: SetWiFi_Password(Password_Length, Password)

2.10.20. Command: 4Eh / N - Set TCP module - LAN or WiFi

input: <'P'><;><'Z'><;><'U'><;><UsedModule[1]><;>

output: ACK

FPR operation: Sets the used TCP module for communication – Lan or WiFi. To

apply use -SaveNetworkSettings()

Input data:

'P' 1 symbol with value 'P' 'Z' 1 symbol with value 'Z' 'U' 1 symbol with value 'U'

UsedModule (Module) 1 symbol with value:

- '1' – LAN - '2' – WiFi

Output data: n. a.

zfpdef: SetTCP ActiveModule(*ActiveModule*)

2.10.21. Command: 4Eh / N - Set idle timeout

input: <'P'><;><'Z'><;><'I'><;><IdleTimeout[4]>

output: ACK

FPR operation: Sets device's idle timeout setting. Set timeout for closing the connection if there is an inactivity. Maximal value – 7200, minimal value 0. 0 is for never close the connection. This option can be used only if the device has LAN or WiFi. To apply use - SaveNetworkSettings()

Input data:

'P'
'Z'
1 symbol with value 'P'
'Z'
1 symbol with value 'I'
1 symbol with value 'I'

IdleTimeout (Timeout) 4 symbols for Idle timeout in format ####

Output data:n. a.

zfpdef: SetIdle_Timeout(IdleTimeout)

2.10.22. Command: 4Eh / N – Set Bluetooth password

input: <'P'><;><'B'><;>< PassLength[1..3]><;><Password[100]>>

output: ACK

FPR operation: Program device's Bluetooth password. To apply use -

SaveNetworkSettings()

Input data:

'P' 1 symbol with value 'P' 'B' 1 symbol with value 'B' 'P' 1 symbol with value 'P' 1 symbol with value 'P'

PassLength (Length) Up to 3 symbols for the BT password len

Password Up to 100 symbols for the BT password

Output data: n. a.

zfpdef: SetBluetooth_Password(Password_Length, Password)

2.10.23. Command: 4Eh / N - Set Bluetooth module enable status

input: <'P'><;><'B'><;><S'><;><BTstatus[1]>

output: ACK

FPR operation: Program device's Bluetooth module to be enabled or disabled. To

apply use -SaveNetworkSettings()

Input data:

'P' 1 symbol with value 'P'
'B' 1 symbol with value 'B'
'S' 1 symbol with value 'S'
BTstatus (Status) 1 symbol with value:

- '0' - Disabled - '1' - Enabled

Output data: n. a.

zfpdef: SetBluetooth Status(BTstatus)

2.10.24. Command: 4Eh / N - Unpair all connected devices - BT

input: <'P'><;><'B'><;><'D'>

output: ACK

FPR operation: Removes all paired devices. To apply use -SaveNetworkSettings()

Input data:

'P' 1 symbol with value 'P' 'B' 1 symbol with value 'B' 'D' 1 symbol with value 'D'

Output data: n. a.

zfpdef: UnpairAllDevices()

2.10.25. Command: 4Eh / N – Save network settings

input: <'P'><;><'A'>

output: ACK

FPR operation: After every change on Idle timeout, LAN/WiFi/GPRS usage, LAN/WiFi/TCP/GPRS password or TCP auto start networks settings this Save command needs to be execute.

Input data:

'P' 1 symbol with value 'P' 'A' 1 symbol with value 'A'

Output data:n. a.

zfpdef: SaveNetworkSettings()

2.10.26. Command: 4Eh / N - Start device LAN test

input: <'R'><;><'T'><;><'T'>

output: ACK

FPR operation: Start LAN test on the device and print out the result

Input data:

'R' 1 symbol with value 'R'
'T' 1 symbol with value 'T'
'T' 1 symbol with value 'T'

Output data:n. a. zfpdef: StartTest_Lan()

2.10.27. Command: 4Eh / N - Start device WiFi test

input: <'R'><;><'W'><;><'T'>

output: ACK

FPR operation: Start WiFi test on the device and print out the result

Input data:

'R'
'W'
'T'
1 symbol with value 'W'
'T'
1 symbol with value 'T'
1 symbol with value 'T'

Output data:n. a. zfpdef: StartTest_WiFi()

2.10.28. Command: 4Eh / N - Start device GPRS test

input: <'R'><:><'G'><:><'T'>

output: ACK

FPR operation: Start GPRS test on the device and print out the result

Input data:

'R' 1 symbol with value 'R' 'G' 1 symbol with value 'G' 'T' 1 symbol with value 'T'

Output data:n. a.

zfpdef: StartTest_GPRS()

2.10.29. Command: 4Eh / N - Start device Bluetooth test

input: <'R'><;><'B'><;><'T'>

output: ACK

FPR operation: Start Bluetooth test on the device and print out the result

Input data:

'R' 1 symbol with value 'R'
'B' 1 symbol with value 'B'
'T' 1 symbol with value 'T'

Output data:n. a.

zfpdef: StartTest_Bluetooth()

3. SOFTWARE APPLICATION REQUIREMENTS

3.1. RULES FOR USING THE COMMANDS

The commands should be used observing the following rules:

- Do not send a subsequent command prior to receiving a response of the preceding one.
- Observe the sequence of sent and received messages.
- The number of the message in every subsequent command should differ from that in the preceding one.
- Observe the two status bites of the Acknowledgment response.
- When the information received is insufficient request detailed status information Command 20h.
- Use unpacked messages to check the standby status of the FD.

3.2. SAMPLE SALE TRANSACTION OF FD

The sale transaction controlled by a software application (SA) is a procedure, which consists of several commands, of which obligatory are: initiation of customer fiscal receipt (command 30h), sale registration (command 31h or 32h), payment (command 35h) and finalization of the fiscal receipt (command 38h).

Sample command sequence for issuing a customer fiscal receipt:

- fiscal receipt opening (command 30h) contains information about the operator's number and password, the type of receipt detailed/brief, with/without VAT printing.
- sale registration (command 31h) contains information about the article's name, price and VAT group as well as non-compulsory information about the quantity sold and value/percent discount/addition;
- subtotal amount (command 33h) contains non-compulsory parameters for printing, external display visualization and value/percent discount/addition of the amount accumulated;
- current receipt information (command 72h) requires a response from the FD, which contains the current parameters of the receipt, the number of sales, the accumulated amounts by VAT groups, information about initiated or finalized payments;
- calculation and payment of VAT on VAT account (command 36h) performs automatic calculation of VAT in the receipt and its payment on VAT account;
- payment (command 35h) contains information about the amount due and type of payment, which may cover partially or in full the grand total amount due as well as a parameter for calculation of change due;
- fiscal receipt closure (command 38h).

4. AUXILARY GS PROTOCOL (COMMANDS 1Dh)

GS command	Message from the AS	FP Answer
Information	<1Dh> <info> where: Info – character 49h - 'I'</info>	<'I'> <number characters="" line[2]="" of="" per="" printable=""> <;> <plu number[5]=""> <;> <departments number[2]=""> <;> <operators number[2]=""> <;> <vat classs="" number[1]=""> <;> <header lines="" number[2]=""> <;> <payments number[2]=""> <;> <logo number[2]=""> <;> <reserve='00'[2]> <;> <receipt number[3]="" transaction=""> <;> <customers [4]="" base="" info=""> <0Ah></customers></receipt></reserve='00'[2]></logo></payments></header></vat></operators></departments></plu></number>
Model	<1Dh> <model> where: Model – character 77h - 'M'</model>	<'M'> <country[2]> <;> <encoding[120]> <;> <device [2]="" type=""> <;> <li< td=""></li<></device></encoding[120]></country[2]>