

VAROS eKasa

For printers equipped with CHDU5000 secured data storage (SDS)

Programmer's Manual version 2.09

Date – 10.2022

Description of Changes Compared to the Previous Version

The proposed syntax of control sequences and variables can be used in competing solutions only with the consent of Varos Trade.

On-line cash register eFT4000, FT5000.

**eKasa printers eFT4000, FT5000 use the same
ESC control sequences and variables.**

Modifications in the eKasa System Include the Following Changes

- ✓ Extension of the records with a new tax level
- ✓ Introduction of sales records in three VAT rates
 - Basic tax rate 23 % / original tax rate 20 % /
 - Reduced tax rate 19 % / original tax rate 10 % /
 - Reduced tax rate 5 % / the original tax rate did not exist /

1. Records of original VAT rates in documents issued until 31/12/2024

2. The basic tax rate of 20%
3. The reduced tax rate of 10%

The original VAT rates will be used to return goods or services purchased before 01/01/.2025

New sequences to support a third tax level.

A reduced VAT rate 05%	DOCUMENT ITEM	Positive	Negative	Corrective positive	Corrective negative
	Sale of goods	<ESC>GNNN			<ESC>GNON
	Return of goods		<ESC>HANN	<ESC>HAON	
	Return of goods at the original VAT rate x%		<ESC>HANR	<ESC>HAOR	
	Discount on goods		<ESC>HBNN	<ESC>HBON	
	Deducted advance		<ESC>HCNN	<ESC>HCON	
	Voucher exchange		<ESC>HDNN	<ESC>HDON	
Original VAT rate 20%	Return of goods		<ESC>4ANR	<ESC>4AOR	
Original VAT rate 10%	Return of goods		<ESC>5ANR	<ESC>5AOR	

- ✓ Display and printing of new VAT rates / 23% 19% 5% / on cash receipts
- ✓ Display and printing of new VAT rates / 23% 19% 5% / on all closing reports
- ✓ Display and printing of the original VAT rates / 20% 10% / on cash receipts,
if the documents contain turnover at the original VAT rate.
- ✓ Display and printing of the original VAT rates / 20% 10% / on the closing reports,
if the turnover is in the closing reports at the original VAT rates.
- ✓ Sending OFF-line documents to the FS server after 31/12/2024 at the original VAT rates

Sample Receipts with New Control Sequences

<i>No.</i>	<i>Type of Cash Receipt</i>	<i>INPUT FILE to eKasa</i>	<i>PRINTED OUTPUT from eKasa</i>
1	Document with items at VAT 23 19 0 %	CLICK to REQUEST	CLICK to RESPOND
2	Document with items at VAT 23 19 5 0 %	CLICK to REQUEST	CLICK to RESPOND
3	Document with items at VAT 23 19 5 0 % plus return of goods 20 10 %	CLICK to REQUEST	CLICK to RESPOND
4	Document with items at VAT 23 19 5 0 % plus return of goods 20 10 %	CLICK to REQUEST	CLICK to RESPOND
5	Document with items at VAT 23 19 5 0 % plus return of goods 20 10 x %	CLICK to REQUEST	CLICK to RESPOND
6	Document with items at VAT 23 19% plus negative turnovers	CLICK to REQUEST	CLICK to RESPOND
7	Document with items in VAT 19 5% plus negative turnovers	CLICK to REQUEST	CLICK to RESPOND
8	Document with items at VAT 23 19 5% plus negative turnovers	CLICK to REQUEST	CLICK to RESPOND
9	Document with items at VAT 23 19 5 0 % plus negative turnovers	CLICK to REQUEST	CLICK to RESPOND
10	Document with item at VAT 23% plus sales of returnable packaging	CLICK to REQUEST	CLICK to RESPOND
11	Document with item at VAT 19% plus the purchase of returnable packaging	CLICK to REQUEST	CLICK to RESPOND
12	Receipt confirm advance payment at 0 VAT rate on goods	CLICK to REQUEST	CLICK to RESPOND
13	Document with item at VAT 5% plus claimed advance payment	CLICK to REQUEST	CLICK to RESPOND
14	Receipt for purchase of a single-purpose voucher	CLICK to REQUEST	CLICK to RESPOND
15	Document with item at VAT 19% plus the use of a single-purpose voucher	CLICK to REQUEST	CLICK to RESPOND
16	Document with the item at VAT 23% plus RND rounding up to plus	CLICK to REQUEST	CLICK to RESPOND
17	Document with the item at VAT 05% plus RND rounding down to minus	CLICK to REQUEST	CLICK to RESPOND
18	CORRECTION document to Document No. 3 with items at VAT 23 19 5 0 %	CLICK to REQUEST	CLICK to RESPOND
19	CORRECTION document to Document No. 9 with items at VAT 23 19 5 0 %	CLICK to REQUEST	CLICK to RESPOND
20	Document with all items without VAT plus negative turnovers	CLICK to REQUEST	CLICK to RESPOND
21	CORRECTION document to Document No. 20 with all items excluding VAT	CLICK to REQUEST	CLICK to RESPOND

Specifying the records of the following document items and the display of VAT on the document

RP – RETURNABLE PACKAGING

Mandatory registration of the sale of returnable packaging at the technical level of VAT 0.

In other VAT levels, the sale of RP may not be recorded.

In the sales application, it is necessary to check the sending of RP with the correct control sequence

Sale of RP - control sequence <ESC>7NNN

Purchase of RP - control sequence <ESC>8ANN

NOTE for eKasa solution

The value of the RP must be calculated separately on the document outside the VAT breakdown.

A separate cash receipt without additional items can also be issued for the purchase of RP.

RSV – REPLACEMENT OF SINGLE-PURPOSE VOUCHER

Application of a single-purpose voucher and display of the VAT rate and amount for document items and in the recapitulation of the document, depending on the amount of the voucher redeemed.

These requirements are integrated into the eKasa solution.

The RSV can only be applied to goods at the same VAT rate.

NOTE for eKasa solution

If the value of the goods is > the value of the RSV

- Individual items of the document and the RSV contain a VAT rate designation
- In the VAT breakdown on the document, the value of the base and the value of VAT are calculated from the difference in the amounts
goods – RSV at the same VAT rate

If the value of the goods is <= the value of the RSV, the RSV is applied only up to the amount of items in the same tax level.

- Individual items of the document and the RSV cannot contain a VAT rate indication
- The VAT breakdown on the document cannot state the values of the base and VAT to which the RSV was applied

DAP – DEDUCTED ADVANCE PAYMENT

Advance payment and the possibility of its use. The possibility of claiming an advance payment received in the "so-called technical zero VAT rate" has been added. Such an advance payment can be applied to goods or services at different tax levels which was not allowed in the past.

To receive the advance payment at the technical zero VAT rate, the control sequence <ESC>3NNN shall be used.

For the application of the advance payment at the technical zero VAT rate, the control sequence <ESC>6CNN shall be used.

Positive document item in 23% VAT rate - control sequence <ESC>1NNN

Positive document item at 19% VAT rate - control sequence <ESC>2NNN

Positive document item in 05% VAT rate - control sequence <ESC>GNNN

Positive document item excluding tax - control sequence <ESC>3NNN

Application of the advance payment at the 23% VAT rate - control sequence <ESC>4CNN

Application of the advance payment at the 19% VAT rate - control sequence <ESC>5CNN

Application of advance payment in 05% VAT rate - control sequence <ESC>HCNN

Application of advance payment document excluding tax - control sequence <ESC>6CNN

NOTE for eKasa solution

For a positive document item at a 23% rate, an advance payment can be applied

<ESC>4CNN, <ESC>6CNN

For a positive document item at a 19% rate, an advance payment can be applied

<ESC>5CNN, <ESC>6CNN

For a positive document item at a 05% rate, an advance payment can be applied

<ESC>HCNN, <ESC>6CNN

For a positive document item excluding tax, an advance payment can be applied <ESC>6CNN

If an advance payment has been made in a tax level <ESC>1NNN, <ESC>2NNN, <ESC>GNNN, it can only be applied to the purchase of goods in the same tax level.

If an advance payment has been made at the technical zero VAT rate <ESC>3NNN, it can be applied to the purchase of goods at all tax levels

Original Sequences That Return Extended Response
Original Sequences That Have Changed Print Output

CLICK to REQUEST – click to open a preview of the printer request from the parent application
NEW RESPOND – click to open a preview of the new printer response from 01/01/2025
OLD RESPOND – click to open a preview of the original response from the printer

No.	<ESC> Sequence	Request for eKasa	Answer from eKasa	Modification
6	Print a continuous closing report <ESC>x<ESC>e	CLICK to REQUEST	ACK	Changing the print output
7	Print the day-end closing report <ESC>d<ESC>e	CLICK to REQUEST	ACK	Changing the print output
8	Print the monthly closing report <ESC>m<ESC>e	CLICK to REQUEST	ACK	Changing the print output
9	Print a date turnover <ESC>XD...<ESC>e	CLICK to REQUEST	ACK	Changing the print output
10	Printing of a document turnover <ESC>XS...<ESC>e	CLICK to REQUEST	ACK	Changing the print output
14	Printing a LOG file <ESC>L<ESC>e	CLICK to REQUEST	ACK	Changing the print output
13	Reading a LOG file <ESC>g<ESC>e	CLICK to REQUEST	NEW RESPOND OLD RESPOND	Extended answer by VAT level
19	Setting VAT rates <ESC>+d...<ESC>e	CLICK NEW REQUEST CLICK to REQUEST	ACK	New VAT rates will be set.
26	Reading VAT levels <ESC>!d<ESC>e	CLICK to REQUEST	NEW RESPOND OLD RESPOND	Extended answer by VAT level
31	Reading the printer status <ESC>!p<ESC>e	CLICK to REQUEST	NEW RESPOND OLD RESPOND	Extended answer by Slip printer status NV memory status
32	Reading CHDU status <ESC>!s<ESC>e	CLICK to REQUEST	NEW RESPOND OLD RESPOND	Extended answer VAT rates, code of the check register PPEKK version, setting the test mode
33	Reading information about the last document <ESC>!I<ESC>e	CLICK to REQUEST	NEW RESPOND OLD RESPOND	Extended answer by VAT level
34	Reading document information <ESC>!r...<ESC>e	CLICK to REQUEST	NEW RESPOND OLD RESPOND	Extended answer by VAT level
35	Reading document information <ESC>!n...<ESC>e	CLICK to REQUEST	NEW RESPOND OLD RESPOND	Extended answer by VAT level
36	Reading information about sales <ESC>!R...<ESC>e	CLICK to REQUEST	NEW RESPOND OLD RESPOND	Extended answer by VAT level

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From 01.01.2019, the amendment to Act 289/2008 Coll. on the electronic cash register applies, after the new ONLINE cash register/ORP/ so-called eKasa.

The full text of the law can be downloaded from the following link:

[Zákon o eKase platný k 1.1.2019](#)

The certification of the eKasa solution is a certification authority test to meet the requirements imposed on PPEKK and CHDÚ as a whole.

PPEKK – Cash Register Programme eKasa Client

CHDÚ – Protected Data Storage

The principle and possibilities of communication of the application programme with eKasa can be downloaded from the link:

eKasa FT5000, eFT4000 ways of communicating

During activation and at the time of sending documents to the financial administration server, the printer must be connected

to the Internet with authorized access at the address:

<https://ekasa.financnasprava.sk> TCP port 443 and 80

For remote printer support by the manufacturer, status monitoring, module upgrades, network settings, DNS, DHCP servers, it is necessary to have access permission

<rdm-server.varos.sk> TCP port 1194

<update.varos.sk>

To synchronize the printer clock with the NTP server, you need to allow access TO

<ntp.ubuntu.com> UDP port 123

2. Basic Comparison eKasa eFT4000/FT5000



Printer **_FT5000** is a separate eKasa device. The printer is equipped with a minicomputer running the internal programme eKasa client PPEKK and secured data storage CHDÚ. The printer communicates directly with the eKasa server on the financial administration via its own Internet /LAN cable or WiFi 2.4GHz/. For its operation, the FT5000 does not need to have a computer connected. It only needs a connection to the computer network through which it receives commands to print documents and through which it communicates with the eKasa system at the financial administration.

Printer **eFT4000** is a device equipped with a secured data storage only. The internal eKasa client programme /PPEKK/ must be run on a connected computer with Windows OS. The printer is dependent on the parent computer. A parent computer is used to communicate with the financial administration server. It needs a RS232 cable connection, or a USB connection to the computer through which commands for printing documents and communication with the PDO are received.

Both devices have the same secured data storage facility and they are controlled with the same ESC sequences.

In sales applications, we recommend creating additional items in the database that will contain

UID - the unique document identifier has the length of 34 characters.

OKP - verification code of the entrepreneur has the length of 44 characters.

It is necessary to send the identifier if some items of document are returned or corrected.

The identifier will be a part of the information obtained using the sequence <ESC>I.

Secured Data Storage – CHDU5000.

Secured data storage is an important element of the eKasa client. This eKasa system smart memory is used to record and archive all communication with the eKasa system and captures all print outputs sent to the connected printer. The speed and safety of the entire eKasa depends on the advanced level of the technical solution of the CHDÚ.

The CHDU5000 is designed to meet the following conditions:

- ✓ one-time data entry, without the possibility of subsequent modification - so-called WORM
- ✓ signed communication with secure encryption of data transmission while recording
- ✓ speed of communication and data processing
- ✓ autonomous device fitted with a USB port for easy viewing of stored data
- ✓ clear data archiving by year and month
- ✓ viewing data in the CHDÚ at any time without the need for an external browser
- ✓ unambiguous identification on the basis of a fixed serial number

Currently, modern security features are signed communication and encryption of data transmission between CHDÚ and PPEKK basic requirements that.

More Detailed CHDU5000 Description

Meaning of the FT5000 keyboard.

The built-in printer keyboard serves as the input and information device of the current status.

- ON-line status indication
- OFF-line status indication
- indication of OFF-line unsent documents
- information about no paper status or open printer cover
- information on an unactivated CHDÚ
- information on the missing CHDÚ
- calling up a copy of a document for printing
- calling up the printout of the overview closing report
- calling up the daily closing report print and its copy
- calling up the print of the service report

FT5000 Keyboard Description

3.1 Printer eFT4000.

The eFT4000 printer communicates exclusively with the TM5000WIN print manager - PPEKK. Manager provides communication with the eKasa system through an existing computer connection to the Internet. The printer can be connected to the computer via RS232 9PIN COM port or USB Type B (virtual RS232 COM port).

- The following connectors are provided on the back panel:
- 24V power supply/ minimum 2A
- opening the 24V cash drawer, RJ12 connector
- RS232 PC connection port, Cannon 9F connector
- USB port - for connection to a computer / virtual COM port /
- for viewing documents stored in the CHDÚ / virtual CD ROM drive /

The eFT4000 can be connected to a thermal printer with a serial interface that can print a QR code normally using a sequence or as a graphic image using the TM5000 print manager function.

They are as follows:

BIXOLON SRP350, SRP350II a SRP350III.

EPSON TM-T20, TM-T20II, TM-T88IV, TM-T88V, TM-T88VI.

EPSON TM-H6000III a TM-H6000IV

3.2 Printer FT5000.

It is a separate device with microcomputer-based PDSF.

Communication with the sales application takes place via RS232 COM port, USB Type B (virtual COM port) or network LAN cable / WiFi via TCP/IP socket.

For network IP communication between the application and the printer, the printer accepts requests from the allowed IP addresses and PORTE: **20543**. The printer behaves like an IP server, listens on port 20543 and responds when there is a request for communication. You can only communicate with one device at a time. If there is a request for communication with another device, the connection will not be made. Before communicating with another device, it is necessary first to close the open port.

It is possible to communicate with the printer directly or via the TM5000 print manager.

The printer communicates with the eKasa system directly via the built-in network connector, wirelessly via WiFi 2.4GHz or USB GSM key (not included).

The following connectors are provided on the back panel:

- 3x USB port for connection keyboard/mouse/BT dongle/GSM key, USB A connector
- 100MHz LAN port for connection to a computer network, RJ45 connector
- USB port for connection to the computer - creating a virtual COM port, USB B connector
- RS232 PC connection port, RJ45 connector
- USB port for viewing documents saved in the CHDÚ, USB B micro connector
- opening the 24V cash drawer, RJ12 connector
- 24V power supply/ minimum 2A
- HDMI port for connecting a monitor with HDMI input

The FT5000 can be connected to a thermal printer with serial interface, that can print a QR code normally using a sequence, or as a graphic image using the TM5000 print manager function.

They are as follows: BIXOLON SRP350, SRP350II a SRP350III

EPSON TM-T20, TM-T20II, TM-T88IV, TM-T88V, TM-T88VI, TM-H6000IV

4.1 Control principle

Computer communication with the eKasa FT5000 is very similar to the way the printers are controlled and managed from computers. This means that eKasa has defined control commands with which the required functions are called. Programmer does not program header, does not calculate tax in documents. This is provided by eKasa. Only document types and variables in the document are programmed, based on which eKasa knows what to do. If eKasa does not receive control sequences in the input strings, it looks like a filter. This means that it will not pass anything and will filter out all text strings, it will not pass it to the printer. If it receives a supported control sequence, it executes a command based on that sequence.

Sending command and receipts to the printer

The printer can communicate with the parent application through the interface:

- LAN, WiFi - TCP / IP protocol "Printer's IP address": Port 20543 For example: 192.168.1.69:20543
- RS232 PORT
- USB PORT / virtual RS232 port /

Recommended procedure for sending documents to the printer

It is recommended to execute the following commands when sending documents:

- Detecting a printer connection - Identifying the printer **<ESC>i** (wait for a response)
- Checking the printer status - Reading status information **<ESC>!P<ESC>e** (wait for response)
- Sending print output - Printing the required document **<ESC>receipts format <ESC>e**
- Print control - Read document information **<ESC>!I<ESC>e** (wait for reply)

If the response to the command is not returned with the note wait for the response, do not continue, but repeat the command.

Meaning and interpretation of characters in the manual:

<0xcc>	- hexa symbol value cc	
<xx>d	- decimal symbol value xx	
<ESC>	- character <0x1B> = <27>d	control character ESCape
<CR>	- character <0x0D> = <13>d	cursor returns home to beginning of line
<LF>	- character <0x0A> = <10>d	enter
<ETX>	- character <0x03> = <03>d	end of stringa
<FF>	- character <0x0C> = <12>d	pagination
<SP>	- character <0x20> = <32>d	space
<ACK>	- character <0x06> = <06>d	true character used for some communications
<NAK>	- character <0x15> = <21>d	false character used for some communications
^	- character <0x5E> = <94>d	character variable so-called roof
^0 - ^9	- characters <0x5E><0x30> to <0x5E><0x39>	characters from the bottom of the table <0x00 – 0x09>
YYMMDDcccc	- unique cash register document number	
WORD	- 2 Byte variable, 1. Byte – upper order, 2. Byte – lower order	
"B"	- variable of length 1 Byte	

4.2 Cash receipt creation by JSON protocol.

A new simple communication interface for data exchange – the FT5000 printer in JSON format was designed for faster integration into parent applications.

JSON (JavaScript Object Notation) is an easy format for data exchange. It is easy for programmers for reading and programming. It is based on a subset of the programming languages standard. JavaScript ECMA-262. JSON is a text format that is completely language-independent but uses conventions known to C language programmers, including C, C ++, C #, Java, JavaScript, Perl, Python, and many others. These features make JSON the ideal language for data exchange.

The documents created in JSON format can be easily checked by the programmer using the validator [JSON code without the need for hardware eKasy.](#)

The JSON document is sent to the printer as follows **Prefix** + **JSON document format** + **Suffix**

Prefix - character **<ESC>**

Suffix - characters **<ESC>e**

Syntax: **<ESC> " JSON document format " <ESC>e**

On the Internet, there are freely accessible ON-line WEB displays of JSON code.

CLICK to open the document creation manual [JSON communication interface](#)

CLICK to open the application [JSON browser](#)

CLICK to open document validator [JSON document validator](#)

/ line out of order now /

4.3 Communication with eFT4000

The eFT4000 communicates exclusively through the TM5000 print manager which is installed into computer with a Windows operating system.

The parent application prepares normally a text file, for example blocek.txt in which the control sequences and the formatted text strings for cash register documents are saved in logical sequence in the sense of the manual and the application saves it to the set up directory of the print manager. The TM5000 print manager manages the download of a file, sends a document to an eKasa, and protected data storage facility, and manages printing or sending the document to a customer electronically.

a) through files, where blocek.txt is input and info.txt is an information file about the latest document.

A file download: using timer or using windows messages.

b) via TCP/IP socket while one VAROS eFT4000 eKasa is accessible from multiple IPs. The maximum number of currently open connections is 1.

The parent application can also run on Android, iOS or Linux platforms, however, it shall communicate with the TM5000 via a TCP / IP socket.

4.4 Communication with FT5000

The FT5000 can be communicated with via the TM5000 print manager or directly via the same <ESC> control sequences for both eFT4000 and FT5000.

The FT5000 always communicates with eKasa FR SR directly via LAN RJ45, WIFI 2.4GHz, or USB GSM key (not included).

In the case of communication via TM5000, the TM5000 only conducts as the downloader of a required file in the present directory, similar to the FT4000.

The parent application can communicate with FT5000, from Windows platform but also from Android, iOS, or Linux platforms.

The connection is provided via RS232 COM port, USB (virtual COM port), LAN/WIFI via TCP/IP socket. We are preparing Bluetooth SPP communication.

4.5 WEB installation lines

Manual for configuration of FT5000 you can download from this link:

[Configuration of FT5000](#)

You can also get the latest versions on our web-site www.varos.sk in folder Software or in folder Manuály.

5. Complete list of ESC sequences



5.1 ESC control sequences and variables used in document creation.

For document types: Cash receipt (PD)
Cash register receipt (PPD)
Withdrawal (VY)
Deposit (VK)
Other document (OD)

The header of the document

<ESC>b	The beginning of the document
<ESC>b^P Receipt number ^k	Cash receipt (PD)
<ESC>v	Cash register receipt (PPD)
<ESC>V	Withdrawal (VY)
<ESC>n	Deposit (VK)
	Other document (OD)

The body of the document

Types of Item for <ESC>b – Cash receipt, Cash register receipt

Positive Items

<ESC>1NNN - positive item for basic (23%) VAT level	y - reason for 0 rate dispensation can be acquired when: N = exemption from tax (OOD) P = shift of the tax liability (PDP) K= travel agencies (CK) T= used goods (PT) U= artworks (UD) Z = collectors' items and antiques (ZPS) C = currency Cash rounded up
<ESC>2NNN - positive item for reduced (19%) VAT level	
<ESC>GNNN - positive item for reduced (05%) VAT level	
<ESC>3NNy - positive item for VAT exemption (0%)	

Negative Items

For negative items of type A - Returning goods or services must be entered UID
UID - unique identifier of the original document to which the current document applies.

<ESC>4xNN- negative item for the basic (23%) VAT level	x - specifying the negative item type: A = Returning goods or service (V) B = Discount (Z) C = Deducted advance (OZ) D = Voucher exchange (VP) y - reason for 0 rate dispensation can be acquired when: N = exemption from tax (OOD) P = shift of the tax liability (PDP) K= travel agencies (CK) T= used goods (PT) U= artworks (UD) Z = collectors' items and antiques (ZPS)
<ESC>5xNN - negative item for reduced (19%) VAT level	
<ESC>HxNN - negative item for reduced (05%) VAT level	
<ESC>6xNy - negative item for VAT exemption (0%)	

Negative Document Items. Return of Goods or Services at Original VAT Rates.
UID - unique identifier of the original document to which the current document applies.

<ESC>4ANR – for reduced (20%) VAT level	Return of goods at the original basic VAT rate Return of goods a the original reduced VAT2 rate Return of goods a the original reduced VAT3 rate
<ESC>5ANR – for reduced (10%) VAT level	
<ESC>HANR – for reduced (x%) VAT level	

Currency Cash rounded

<ESC>3NNC	currency Cash rounded up
<ESC>6ANC	currency Cash rounded down

Returnable container item type (VO)

<ESC>7NNN	positive item for returnable containers only
<ESC>8ANN	negative item for returnable containers only

Adjusting entries (O)

It refers to a correction in both the positive and negative directions.

It is necessary to know the **UID** - original document number to which the current correction applies.

<ESC>1NON	a negative value compared to the original value <ESC>1NNN
<ESC>2NON	a negative value compared to the original value <ESC>2NNN
<ESC>GNON	a negative value compared to the original value <ESC>GNNN
<ESC>3NO y	a negative value compared to the original value <ESC>3NN y $y = N, P, K, T, U, Z$ - reason for assigning VAT exemption N = exemption from tax (OOD) P = shift of the tax liability (PDP) K = travel agencies (CK) T = used goods (PT) U = artworks (UD) Z = collectors' items and antiques (ZPS)
<ESC> x AON	positive value over compared to the original value <ESC> x ANN $x = 4, 5, 6, H$ - VAT level 4 – for basic (23%) VAT level 5 – for reduced (19%) VAT 2 level H – for reduced (5%) VAT 3 level 6 – for VAT exemption (0%)
<ESC> x BON	positive value over compared to the original value <ESC> x BNN
<ESC> x CON	positive value over compared to the original value <ESC> x CNN
<ESC> x DON	positive value over compared to the original value <ESC> x DNN
<ESC>6DO y	positive value over compared to the original value <ESC>6DN y $y = N, P, K, T, U, Z$ - reason for assigning VAT exemption N = exemption from tax (OOD) P = shift of the tax liability (PDP) K = travel agencies (CK) T = used goods (PT) U = artworks (UD) Z = collectors' items and antiques (ZPS)
<ESC>7NON	a negative value compared to the original value <ESC>7NNN
<ESC>8AON	positive value over compared to the original value <ESC>8ANN

Cash Rounding

Maximum rounding height - the rounding value is checked to see if it is within the range of <-2 to 2> cents.

If the amount of the receipt is up to 5 cents the value can be in the range of <-4 to 4> cents.

If the total price of the receipt is up to 5 cents, it is rounded to 5 cents Example: 0.01, 0.02, 0.03, 0.04 to 0.05

If the price on the receipt exceeds 5 cents, the price paid in cash is rounded mathematically to 5 cents

1 and 2 cents down to 0 cent

3 and 4 cents up to 5 cents

6 and 7 cents down to 5 cents

8 and 9 cents up to 10 cents

Example: 0.11 to 0.10, 0.22 to 0.20, 0.42 to 0.40

0.33 to 0.35, 0.34 to 0.35, 0.93 to 0.95

0.36 to 0.35, 0.37 to 0.35, 0.96 to 0.95

0.18 to 0.20, 0.19 to 0.20, 0.98 to 1.00

<ESC>3NNC

C = currency **Cash** rounded up

<ESC>6ANC

C = currency **Cash** rounded down

The footer of the document

<ESC>k

Information about the incoming final amount of money for cash register document, invoice payment, invalid document, deposit or withdrawal.

<ESC>Px

Used currency in the document.
x = <1 - 8> defining the type of means of payment and the amount. If negative value of payments appears, it is required to use minus sign.

<ESC>e

End of document.

For document types: Invoice payments (UF)

Invoice payment receipt (PUF)

The header of the document

<ESC>B

The beginning of the invoice payment document

<ESC>B^P Receipt number ^k

Invoice payment (UF)

Invoice payment receipt (PUF)

The body of the document

Types of Item for <ESC>B – Invoice payments, Invoice payment receipt

<ESC>0NNN

Positive item for the invoice payment only

<ESC>9ANN

Negative item for the invoice payment only

<ESC>3NNC

Currency **Cash** rounded up

<ESC>6ANC

Currency **Cash** rounded down

The footer of the document

<ESC>k

Information about the incoming final amount of money for cash register document, invoice payment, invalid document, deposit or withdrawal.

<ESC>Px

Used currency in the document.
x = <1 - 8> defining the type of means of payment and the amount. If negative value of payments appears, it is required to use minus sign.

<ESC>e

End of document.

5.2 Control sequences when creating documents

Control sequence	Example	Description
^t	^t	Printed receipt, or invoice It must be used ^t or ^e Mandatory variable in PD, PPD, UF, PUF, VY, VK Forbidden variable in OD
^e	^e sent to email ^k Example: ^e varos@varos.sk ^k	Electronic receipt or invoice sent to email varos@varos.sk If the printer is in an off-line status, a receipt is printed. Either ^t or ^e must be used Mandatory variable in PD, PPD, UF, PUF, VY, VK Forbidden variable in OD
^P	^P Receipt number ^k Example: ^P 2020090515240890002 ^k	Receipt number YYYYMMDDhhmmsscccc – 19 characters Receipt No. 90002 issued on 5/9/2020 at 3:24:08 PM The following shall be printed on the printer: Receipt Date: 05.09.2020 15:24:08 Receipt number: 90002 Mandatory variable in the PPD receipt, in the PUF receipt Forbidden variable in PD, UF, VY, VK, OD
^I	^I Invoice number ^k Example: ^I 201800001 ^k	Invoice number = 201800001 – string <1-50> characters A string is printed before the variable: Payment of the invoice No.: Mandatory variable UF, PUF Forbidden variable in PD, VY, VK, OD
^D	^D Item name ^k Example: ^D mlieko plnotučné ^k	Item name – string <1-255> characters The name of the item can also use the delineation character, i.e. the name can be formatted into multiple rows. Allowed values: [0-9a-zA-Z]space, delineation, á Á ä é ě ě Č č Ď é ě Í í Ĺ ĺ ň Ó ó Ő ő Ŕ ŕ Š š Ť ť Ú ú Ý ý Ž ž # & @ { } [] () < > * + - x ÷ = ~ ° ' " \ / \$; , . % ! Mandatory variable in PD, PPD Forbidden variable in UF, VY, VK, OD
^J	^J Unit price ^k Example: ^J 1234567.1234 ^k	Unit price – string <1-12> characters Maximum of 7 integers and 4 decimals Optional variable in PD, PPD Forbidden variable in UF, VY, VK, OD
^Q	^Q Quantity ^k Example: ^Q 1234567.123 ^k	Quantity is always a positive number – string <1-11> characters Maximum of 7 integers and 3 decimals Mandatory variable in PD, PPD Forbidden variable in UF, VY, VK, OD
^M	^M Unit measurement ^k Example: ^M kus ^k	Unit of measurement – string <1-3> characters Example: litre, m3, pcs.... Optional variable in PD, PPD Forbidden variable in UF, VY, VK, OD
^R	^R UID ^k Example: ^R 0-8C937D21155C420 D937D21155C5-TEST ^k	Unique Identifier of the Receipt – string <1-44> characters The following shall be used as a string: UID – unique identifier of the original document to which the current document applies. OKP - if the original document does not contain a unique document identifier. /verification code of the entrepreneur with the OFF-line document/ PCD – serial number of the original cash receipt issued by ERP The following string is printed before the variable: ID: Mandatory variable in the PD on return of goods, services and provisions.

		Forbidden variable in UF, VY, VK, OD																																	
^c	^c1 Customer_IČO ^k ^c2 Customer_DIČ ^k ^c3 Customer_IČ_DPH ^k ^c4 Customer_INĚ ^k	Customer identification. - character string <1-50> Allowed values: [0-9a-zA-Z] Variable c1 – Company ID:, c2 – Tax ID:, c3 – VAT ID:, c4 – OTHER: A string is printed in front of variable c1: Customer's ID: The string is printed before the c2 variable: Customer's Tax ID: The string is printed before the c3 variable: Customer VAT ID: The string is printed before the c4 variable: Customer OTHER: Optional variable in PD, PPD, UF, PUF Forbidden variable in VY, VK, OD																																	
^S	^S1 Seller_DIČ ^k ^S2 Seller_IČ_DPH ^k Example: ^S1202000500^k ^S2SK202000501^k	Identification of the seller in whose name the goods were sold or service was provided - character string <1-50> Allowed values: [0-9a-zA-Z] Variable S1 – VAT number, S2 – VAT number is used when goods of several sellers are sold with one eKasa. A string is printed in front of the S1 variable: Tax ID: A string is printed before the S2 variable: VAT ID: Optional variable in PD, PPD, UF, PUF Forbidden variable in VY, VK, OD																																	
^V	^V voucher number ^k Example: ^VPOUKAZ190002^k	Exchanged voucher number - <1-50> character string A string is printed before the variable: Payment by voucher No. Optional variable in PD, PPD																																	
^bx	^b x BARCODE print ^k Example: ^b4FA202000069^k	BARCODE print - string by barcode type x - is a barcode typ '0' UPC-A '6' CODABAR '1' UPC-E '7' CODE93 '2' JAN13 (EAN13) 'I' CODE128 '3' JAN8 (EAN8) 'J' EAN128 '4' CODE39 '5' ITF The variable must be used inn a separate line. If the BARCODE exceeds the paper width, the printer will not will not print it. String barcode must meet requirements for a given type of code. It is necessary to verify the specific printer which supports the barcodes. <table border="1"> <thead> <tr> <th>Code type</th><th>Code length</th><th>Allowed characters in the code</th></tr> </thead> <tbody> <tr> <td>UPC-A</td><td>11, 12</td><td>0~9</td></tr> <tr> <td>UPC-E</td><td>6, 7, 8, 11, 12</td><td>0~9, d1 = '0' if k = 7,8,11,12</td></tr> <tr> <td>EAN13</td><td>12, 13</td><td>0~9</td></tr> <tr> <td>EAN8</td><td>7, 8</td><td>0~9</td></tr> <tr> <td>CODE39</td><td>1~255</td><td>0~9, A~Z, SP, \$, %, *, +, -, ., /</td></tr> <tr> <td>ITF</td><td>2~255 even</td><td>0~9</td></tr> <tr> <td>CODABAR</td><td>1~255</td><td>0~9, A~D, a~d, \$, +, -, ., /, :</td></tr> <tr> <td>CODE93</td><td>1~255</td><td>0x00~0x7F</td></tr> <tr> <td>CODE128</td><td>2~255</td><td>0x00~0x7F [d1 = { A d2 C]</td></tr> <tr> <td>EAN128</td><td>11,12</td><td>0~9</td></tr> </tbody> </table>	Code type	Code length	Allowed characters in the code	UPC-A	11, 12	0~9	UPC-E	6, 7, 8, 11, 12	0~9, d1 = '0' if k = 7,8,11,12	EAN13	12, 13	0~9	EAN8	7, 8	0~9	CODE39	1~255	0~9, A~Z, SP, \$, %, *, +, -, ., /	ITF	2~255 even	0~9	CODABAR	1~255	0~9, A~D, a~d, \$, +, -, ., /, :	CODE93	1~255	0x00~0x7F	CODE128	2~255	0x00~0x7F [d1 = { A d2 C]	EAN128	11,12	0~9
Code type	Code length	Allowed characters in the code																																	
UPC-A	11, 12	0~9																																	
UPC-E	6, 7, 8, 11, 12	0~9, d1 = '0' if k = 7,8,11,12																																	
EAN13	12, 13	0~9																																	
EAN8	7, 8	0~9																																	
CODE39	1~255	0~9, A~Z, SP, \$, %, *, +, -, ., /																																	
ITF	2~255 even	0~9																																	
CODABAR	1~255	0~9, A~D, a~d, \$, +, -, ., /, :																																	
CODE93	1~255	0x00~0x7F																																	
CODE128	2~255	0x00~0x7F [d1 = { A d2 C]																																	
EAN128	11,12	0~9																																	

5.3 Sequences for the printer control

<i>^N</i>	5E 4E	font selection - normal font (*1)
<i>^H</i>	5E 48	- high font (*1)
<i>^B</i>	5E 42	- bold font (*1)
<i>^s</i>	5E 73	font selection type B - small font
<i>^L</i>	5E 4C	sending the LF character to the printer /move to the next line/
<i>^F</i>	5E 46	sending the FF -FORMFEED character. /paging/
<i>^C</i>	5E 4C	sending the CR character to the printer /move cursor to the beginning of the line/
<i>^E</i>	5E 45	sending the <ESC> control character to the printer
<i>^^</i>	5E 5E	sending "^" character to the printer
<i>^Z</i>	5E 5A	opening the cash drawer -open_drw the signal is sent to both PIN 4-2 and PIN 4-5
<i>^E i</i>	5E 45 69	cut the paper

5.4 Sequences used to print and retrieve copies of documents and to print overview closing report (More details in Chapter 7)

<ESC> C <i>unique number</i> <CR><ESC>e	1B 43 číslo dokladu 0D 1B 65	Printing a copy of the document podľa jedinečného čísla dokladu Jedinečné číslo má vždy 11 znakov: YYMMDDcccc YYMMDD -dátum dokladu cccc -číslo pokladničného dokladu Príklad: 19101500001 doklad číslo 00001 z 15.10.2019
<ESC> q <i>unique number</i> <CR><ESC>e	1B 71 číslo dokladu 0D 1B 65	Retrieval of a cash receipt podľa jedinečného čísla dokladu. Jedinečné číslo má vždy 11 znakov: YYMMDDcccc YYMMDD -dátum dokladu cccc -číslo pokladničného dokladu Príklad: 20071500245 doklad číslo 00245 z 15.07.2020)
<ESC>c<ESC>e	1B 63 1B 65	Printing a copy of the recent document
<ESC>Q <ESC>e	1B 51 1B 65	Retrieval the recent document to the computer
<ESC>U <i>the unique number</i> <CR><ESC>e	1B 55 číslo dokladu 0D 1B 65	Retrieval of the UID document under a unique document number A unique number always has 11 characters: YYMMDDcccc YYMMDD - document date cccc - cash receipt number
<ESC>x<ESC>e <ESC>d<ESC>e <ESC>m<ESC>e	1B 78 1B 65 1B 64 1B 65 1B 6D 1B 65	Print Continuous Closing Print Daily Closing Print Month Closing
<ESC>XD DATE1 <CR> DATE2 <CR><ESC>e	1B 58 44 DATE1 0D DATE2 0D 1B 65	The print of overview closing report according to the selected date range from DATE1 to DATE2 inclusive. The date is in the form YYYYMMDD YYYY -year MM -month DD -day.
<ESC>XS RECEIPT1 <CR> RECEIPT2 <CR> <ESC>e	1B 58 53 RECEIPT1 0D RECEIPT2 0D 1B 65	The print of the overview closing report according to the selected receipt range from RECEIPT1 to RECEIPT2 included. The receipt is given in the form of YYMMDDccccccc YY -year MM -month DD -day cccc -serial number of the receipt in a given month.

5.5 Sequences used for auxiliary functions (More details in Chapter 8)

<ESC>i	1B 69	Retrieving eKasa identification
<ESC>I<ESC>e	1B 49 1B 65	Identification of an information file
<ESC>g<ESC>e	1B 67 1B 65	Retrieving LOG file - supported FT5000
<ESC>L<ESC>e	1B 4C 1B 65	Print LOG file - supported FT5000
<ESC>o<ESC>e	1B 6F 1B 65	Opening the cash drawer
<ESC>F<ESC>e	1B 46 1B 65	Sending a control sequence to the printer
<ESC>S<ESC>e	1B 53 1B 65	Sending OFF-line receipts to FS
<ESC>G<ESC>e	1B 47 1B 65	Portable cash register location

5.6 Configuration Sequences <ESC>+ (More details in Chapter 10.)

<ESC>+T0<ESC>e	1B 2B 54 30 1B 65	Setting a sharp mode
<ESC>+T1<ESC>e	1B 2B 54 31 1B 65	Setting a test mode
<ESC>+d VAT1<CR> VAT2<CR> VATFREE<CR> VAT1OLD<CR> VAT2OLD<CR> VAT3<CR> VAT3OLD<CR> <ESC>e	1B 2B 54 64 VAT1 0D VAT2 0D VATFREE 0D VAT1OLD 0D VAT2OLD 0D VAT3 0D VAT3OLD 0D 1B 65	Setting VAT (DPH) Rates VAT1 - higher tax rate 23% VAT2 - lower tax rate 19% VATFREE - exempt from tax VAT1OLD - original higher tax rate 20% VAT2OLD - original lower tax rate 10% VAT3 - lower tax rate 5% VAT3OLD - original lower tax rate 0%

5.7 Sequences for retrieving eKasa status <ESC> ! (More details in Chapter 9.)

The completed terminating sequence <ESC>e is mandatory for the selected sequences.

<ESC>DC1	1B 11	Retrieval ON line printer status
<ESC>DC2	1B 12	Retrieving indicator of the document in progress
<ESC>!h<ESC>e	1B 21 68 1B 65	Retrieval of customer's header
<ESC>!ID<ESC>e	1B 21 44 1B 65	DKP retrieval Customer's DKP retrieval
<ESC>!d<ESC>e	1B 21 64 1B 65	Retrieval of current tax levels
<ESC>!v<ESC>e	1B 21 76 1B 65	Retrieving internal firmware version PPEKK
<ESC>!T<ESC>e	1B 21 54 1B 65	Retrieving indicator of test mode
<ESC>!c<ESC>e	1B 21 63 1B 65	Retrieval of Certificate Validation
<ESC>!O<ESC>e	1B 21 4F 1B 65	Retrieving the number of offline documents
<ESC>!s<ESC>e	1B 21 73 1B 65	Retrieving information about the CHDÚ JSON format
<ESC>!p<ESC>e	1B 21 70 1B 65	Retrieving printer status JSON format
<ESC>!I<ESC>e	1B 21 49 1B 65	Info retrieving about last receipt JSON format
<ESC>!r YYMMDDcccc <ESC>e	1B 21 72 Y Y M M D D c c c c c 1B 65	Retrieving information about the receipt JSON format Retrieving information about a selected receipt based on the receipt number. Receipt number YYMMDDcccc should be entered. YY-year, MM-month, DD-day, ccccc serial number of the receipt in the month. Example: Receipt No. 365 of 31.12.2022 22123100365
<ESC>!n receiptId <ESC>e	1B 21 6e receiptId 1B 65	Retrieving information about the receipt JSON format Retrieving information about the selected document based on the receiptId - 15 characters. Receipt identifier receiptId should be provided. Receipt information can only be obtained from documents that contain the receiptId variable. / parent application shall send the receiptId variable within the receipt / Example: receiptId: RID568972022
<ESC>!R<ESC>e	1B 21 52 1B 65	Retrieving information about takings JSON format Retrieving turnovers since the last daily closing. "Total turnovers of open closing"

5.8 The part of sequences with return value

Query confirmation: True - ACK, False - NAK, Required response - Data, Amount (2Byt)

<ESC> sequences	Return value		Description
	True	False	
<ESC>C	ACK	/ NAK	Printing a copy of the document
<ESC>q	ACK + Amount +Data	/ NAK	Retrieval of a cash receipt to the computer
<ESC>c	ACK	/ NAK	Printing a copy of the recent document
<ESC>Q	ACK + Amount +Data	/ NAK	Retrieval the recent document to the computer
<ESC>U	ACK + Amount +Data	/ NAK	Retrieval of the UID document to the computer
<ESC>x	ACK	/ NAK	Print Continuous Closing
<ESC>d	ACK	/ NAK	Print Daily Closing
<ESC>m	ACK	/ NAK	Print Monthly Closing
<ESC>XD	ACK	/ NAK	Print the overview closing
<ESC>XS	ACK	/ NAK	Print the overview closing
<ESC>i	Data (8Byt)		Retrieving eKasa identification
<ESC>I	Data + ETX		Identification of an information file
<ESC>g	Data + ETX		Retrieving LOG file
<ESC>L	ACK	/ NAK	Print LOG file
<ESC>o			Opening the cash drawer
<ESC>F			Send a short control sequence to printer
<ESC>S	ACK	/ NAK	Sending OFF-line Documents to FS
<ESC>G			Portable cash register location
<ESC>+	ACK	/ NAK	Configuration Sequences – VAT, TEST mode
<ESC>DC1	Data (5Byt)		Retrieval ON_line printer status
<ESC>DC2	Data (5Byt)		Retrieving indicator of the document in progress.
<ESC>!	ACK + Amount +Data	/ NAK	Retrieving eKASA status

Examples of individual commands from Table 5.4 - 5.8 can be downloaded from the followingline

[Examples of individual commands](#)

5.9 EXAMPLES of individual commands

No.	<ESC> sequences	Request to printer:	Answer from the printer:	False - return value:	Printout
1	<ESC>C...<ESC>e	CLICK to REQUEST	ACK	NAK	YES
2	<ESC>q...<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
3	<ESC>c<ESC>e	CLICK to REQUEST	ACK	NAK	YES
4	<ESC>Q<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
5	<ESC>U.....<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
6	<ESC>x<ESC>e	CLICK to REQUEST	ACK	NAK	YES
7	<ESC>d<ESC>e	CLICK to REQUEST	ACK	NAK	YES
8	<ESC>m<ESC>e	CLICK to REQUEST	ACK	NAK	YES
9	<ESC>XD...<ESC>e	CLICK to REQUEST	ACK	NAK	YES
10	<ESC>XS...<ESC>e	CLICK to REQUEST	ACK	NAK	YES
11	<ESC>i	CLICK to REQUEST	CLICK to RESPOND		NO
12	<ESC>I<ESC>e	CLICK to REQUEST	CLICK to RESPOND		NO
13	<ESC>g<ESC>e	CLICK to REQUEST	CLICK to RESPOND		NO
14	<ESC>L<ESC>e	CLICK to REQUEST	ACK	NAK	YES
15	<ESC>o<ESC>e	CLICK to REQUEST			NO
16	<ESC>F...<ESC>e	CLICK to REQUEST			YES
17	<ESC>S<ESC>e	CLICK to REQUEST	ACK	NAK	NO
18	<ESC>G...<ESC>e	CLICK to REQUEST			NO
19	<ESC>+d...<ESC>e	CLICK to REQUEST	ACK	NAK	NO
20	<ESC>+T0<ESC>e	CLICK to REQUEST	ACK	NAK	NO
21	<ESC>+T1<ESC>e	CLICK to REQUEST	ACK	NAK	NO
22	<ESC>DC1	CLICK to REQUEST	CLICK to RESPOND		NO
23	<ESC>DC2	CLICK to REQUEST	CLICK to RESPOND		NO
24	<ESC>!h<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
25	<ESC>!D<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
26	<ESC>!d<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
27	<ESC>!v<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
28	<ESC>!T<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
29	<ESC>!c<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
30	<ESC>!O<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
31	<ESC>!p<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
32	<ESC>!s<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
33	<ESC>!I<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
34	<ESC>!r...<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
35	<ESC>!n...<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO
36	<ESC>!R...<ESC>e	CLICK to REQUEST	CLICK to RESPOND	NAK	NO

Creating a cash register document

<ESC> sequence	Hexa code	Description
The header of the document		
<ESC>b ^t	1B 62 5E 74	the beginning of the cash register document ^t - printed document
<ESC>b ^eemail@varos.sk^k	1B 62 5E 65 email 5E 6B	the beginning of the cash register document ^e – document sent electronically to email@varos.sk
<ESC>b^t ^P2018 111409153020221 ^k	1B 62 5E 74 5E 50 c.paragonu 5E 6B	the beginning of receipt cash register document. The document is not printed, it is only registered in the eKasa system. ^P - number and date of the receipt - required entry YYYYMMDDhhmmsscccc – 19 characters Receipt no. 20221 of 14.11.2018 09:15:30
<ESC>B^t ^I18001^k	1B 42 5E 74 5E 49 5E 6B	the beginning of the invoice payment document ^t - printed document ^I - invoice no.18001
<ESC>B ^eemail@varos.sk^k ^I18002^k	1B 42 5E 65 email 5E 6B 5E 49 c.fa. 5E 6B	the beginning of the invoice payment document ^e – document sent electronically to email@varos.sk ^I – invoice no.18002
<ESC>B^t ^P 2018 111409030519002 ^k ^I18003^k	1B 42 5E 74 5E 50 c.paragonu 5E 6B 5E 49 c.fa. 5E 6B	the beginning of the receipt invoice payment ^t^P -number and date of the receipt - required entry Receipt no. 19002 z 14.11.2018 09:30:05 ^I – invoice no.18003
<ESC>V	1B 56	Deposit to the cash register
<ESC>v	1B 76	Withdrawal from cash register
<ESC>n	1B 6E	Other document (Order, Mint, bill of delivery...)
^t	5E 74	Printed document
^e	5E 65	Document sent electronically
^k	5E 6B	End character
Body of the receipt for <ESC>b – Items		
<ESC>1NNN <ESC>2NNN <ESC>GNNN <ESC>3NNy	1B 31 4E 4E 4E 1B 32 4E 4E 4E 1B 47 4E 4E 4E 1B 33 4E 4E y	Positive item for the basic Positive item for the basic 23% VAT rate Positive item for the reduced 19% VAT rate Positive item for reduced VAT rate of 05% Positive item for exemption VAT rate when y = reason for 0 rate dispensation can be acquired when: N = exemption from tax P = shift of the tax liability K= travel agencies T= used goods U= artworks Z = collectors' items and antiques C = currency Cash rounded
<ESC>4ANN <ESC>4ANR <ESC>5ANN <ESC>5ANR <ESC>HANR <ESC>HANR <ESC>6ANY	1B 34 41 4E 4E 1B 34 41 4E 52 1B 35 41 4E 4E 1B 35 41 4E 52 1B 48 41 4E 4E 1B 48 41 4E 52 1B 36 41 4E y	Negative item of the type - return of goods or services for basic 23% VAT rate for the original basic VAT rate 20% for reduced 19% VAT rate for the original basic VAT rate 10% for reduced VAT rate of 05% for original reduced VAT rate of x% for the exemption from VAT rate y = reason for 0 rate dispensation - N, P, K, T, U, Z, C

<ESC>4BNN <ESC>5BNN <ESC>HBNN <ESC>6BNy	1B 34 42 4E 4E 1B 35 42 4E 4E 1B 48 42 4E 4E 1B 36 42 4E y	Negative item of the type – discount for basic 23% VAT rate for reduced 19% VAT rate for reduced 5% VAT rate for the exemption from VAT rate y = reason for 0 rate dispensation - N, P, K, T, U, Z
<ESC>4CNN <ESC>5CNN <ESC>HCNN <ESC>6CNy	1B 34 43 4E 4E 1B 35 43 4E 4E 1B 48 43 4E 4E 1B 36 43 4E y	Negative item of the type - advance for basic 23% VAT rate for reduced 19% VAT rate for reduced 5% VAT rate for the exemption from VAT rate y = reason for 0 rate dispensation - N, P, K, T, U, Z
<ESC>4DNN <ESC>5DNN <ESC>HDNN <ESC>6DNy	1B 34 44 4E 4E 1B 35 44 4E 4E 1B 48 44 4E 4E 1B 36 44 4E y	Negative item of the type - exchange voucher for basic 23% VAT rate for reduced 19% VAT rate for reduced 05% VAT rate for the exemption from VAT rate y = reason for 0 rate dispensation - N, P, K, T, U, Z
<ESC>7NNN <ESC>8ANN	1B 37 4E 4E 4E 1B 38 41 4E 4E	Positive item for returnable containers Negative item for returnable containers
<ESC>1NON <ESC>2NON <ESC>GNON <ESC>3NOy	1B 31 4E 4F 4E 1B 32 4E 4F 4E 1B 47 4E 4F 4E 1B 33 4E 4F y	Adjusting entry with a negative value for the basic 23% VAT rate to the original VAT rate <ESC>1NNN for a reduced 19% VAT rate to the original VAT rate <ESC>2NNN for a reduced 5% VAT rate to the original VAT rate <ESC>GNNN for exemptional rate from VAT regarding to original<ESC>3NNy y= reason for 0 rate dispensation - N, P, K, T, U, Z
<ESC>4AON <ESC>5AON <ESC>HAON <ESC>6AOy	1B 34 41 4F 4E 1B 35 41 4F 4E 1B 48 41 4F 4E 1B 36 41 4F y	Adjusting entry for the return of goods or service with a positive value for the basic 23% VAT rate to the original sequence <ESC>4ANN for a reduced 19% VAT rate to the original one <ESC>5ANN for a reduced 5% VAT rate to the original one <ESC>HANN for the exemption from VAT rate to the original one <ESC> 6ANy y = reason for 0 rate dispensation - N, P, K, T, U, Z
<ESC>4BON <ESC>5BON <ESC>HBON <ESC>6BOy	1B 34 42 4F 4E 1B 35 42 4F 4E 1B 48 42 4F 4E 1B 36 42 4F y	Adjusting entry for the discount with a positive value for the basic 23% VAT rate to the original one <ESC>4BNN for a reduced 19% VAT rate to the original one <ESC>5BNN for a reduced 5% VAT rate to the original one <ESC>HBNN for the exemption from VAT rate to the original one <ESC> 6BNy y = reason for 0 rate dispensation - N, P, K, T, U, Z
<ESC>4CON <ESC>5CON <ESC>HCON <ESC>6COy	1B 34 43 4F 4E 1B 35 43 4F 4E 1B 48 43 4F 4E 1B 36 43 4F y	Adjusting entry for the deducted advance with a positive value for the basic 23% VAT rate to the original one <ESC>4CNN for a reduced 19% VAT rate to the original one <ESC>5CNN for a reduced 5% VAT rate to the original one <ESC>HCNN for the exemption from VAT rate to the original one <ESC> 6CNy y = reason for 0 rate dispensation - N, P, K, T, U, Z
<ESC>4DON <ESC>5DON <ESC>HDON <ESC>6DOy	1B 34 44 4F 4E 1B 35 44 4F 4E 1B 48 44 4F 4E 1B 36 44 4F y	Adjusting entry for exchange voucher with a positive value for the basic 23% VAT rate to the original one <ESC>4DNN for a reduced 19% VAT rate to the original one <ESC>5DNN for a reduced 5% VAT rate to the original one <ESC>HDNN for the exemption from VAT rate to the original one <ESC> 6DNy y = reason for 0 rate dispensation - N, P, K, T, U, Z
<ESC>7NON <ESC>8AON	1B 37 4E 4F 4E 1B 38 41 4F 4E	Adjusting entry for returnable containers negative value to the original one <ESC>7NNN positive value to the original one <ESC> 8ANN

The body of the document for invoice payment <ESC>B

<ESC>0NNN	1B 30 4E 4E 4E	Positive item for the invoice payment only
<ESC>9ANN	1B 39 41 4E 4E	Negative item for the invoice payment only
<ESC>3NNC	1B 33 4E 4E 43	Currency Cash rounded up
<ESC>6ANC	1B 36 41 4E 43	Currency Cash rounded down
^I	5E 49	^I – Invoice number, mandatory variable in Invoice payment

The footer of the document

<ESC>k	1B 6B	information about the incoming final amount of money for cash register document, invoice payment, invalid document, deposit or withdrawal
<ESC>Px	1B 50 x	X = <1 - 8>, defining the type of means of payment and the amount. If negative value of payments appears, it is required to use minus sign. If negative value of payments appears, to use minus sign is required.
<ESC>e	1B 65	end of cash register document

6. Creating a Cash Register Document



Types of cash register documents. <ReceiptType> (PD, UF, ND, VY, VK, PPD, PUF)

- 6.1 <ESC>b = cash register document - receipt (PD)
- 6.2 <ESC>B = invoice payment (UF)
- 6.3 <ESC>v = withdrawal (VY)
- 6.4 <ESC>V = deposit (VK)
- 6.5 <ESC>b^PYYYYMMDDhhmmsscccc^k = receipt cash register document (PPD)
- 6.6) <ESC>B^PYYYYMMDDhhmmsscccc^k = receipt invoice payment (PUF)
- 6.7 <ESC>n = other documents. /Order to the kitchen, coin, and bill of delivery .../

The date of the receipt issue ^P

YYYY = year, MM = month, DD = day, hh = hour, mm = minute, ss = second

cccc = receipt number

All control sequences must be formatted to the extension of 5 characters.

If the sequence is shorter than required, character "N" must be appended to the right side.

Character N = None

Example: <ESC>1NNN = 0x1b 0x31 0x4E 0x4E 0x4E

character: 1. 2. 3. 4. 5.

Where:

The 1st character is <ESC> = 0x1b

The 2nd character is tax level 1, 2, 3, 4, 5, 6, 7, 8, 9, 0

The 3rd character is specifying information about the item type A, B, C, D, N

A = return, B = discount, C = deducted advance, D = exchange voucher, N = None

The 4th character is O = Correction or N = None

The 5th character is specifying information about allocating to 0% rate, can acquire N, P, K, T, U, Z, C

N = tax exemption (OOD)

P = shift of the tax liability (PDP)

K = travel agents (CK)

T = used goods (PT)

U = artworks (UD)

Z = collectors' items and antiques (ZPS)

C = currency Cash rounded

Adjusting entries (O)

Adjusting entries may acquire positive or negative values of the price.

It refers to a correction of an incorrectly registered item in the e-kasa system.

When returning goods or service there must be original document's number noted by every single returning item. As number of original document is used:

UID – when ON-line document, UID - unique document identifier

OKP – when OFF-line document, OKP – verifying code of entrepreneur

Original document number – when document was given before e-Kasa implementation.

It is defined by the fourth character in the control sequence.

Example: <ESC>1N**O**N - correction of the original one <ESC>1NNN

They can acquire following values

VAT level		Recorded item		Adjusting entry	
		Positive > 0	Negative < 0	Positive > 0	Negative < 0
Basic 23%	sale of goods	<ESC>1NNN			<ESC>1NON
	Returning goods		<ESC>4ANN	<ESC>4AON	
	Return of goods at the original VAT rate of 20%		<ESC>4ANR	<ESC>4AOR	
	discount on goods		<ESC>4BNN	<ESC>4BON	
	deducted advance		<ESC>4CNN	<ESC>4 CON	
	exchange of voucher		<ESC>4DNN	<ESC>4DON	
Reduced 19%	sale of goods	<ESC>2NNN			<ESC>2NON
	returning goods		<ESC>5ANN	<ESC>5AON	
	Return of goods at the original VAT rate of 10%		<ESC>5ANR	<ESC>5AOR	
	discount on goods		<ESC>5BNN	<ESC>5BON	
	deducted advance		<ESC>5CNN	<ESC>5 CON	
	exchange of voucher		<ESC>5DNN	<ESC>5DON	
Reduced 05%	sale of goods	<ESC>GNNN			<ESC>GNON
	returning goods		<ESC>HANN	<ESC>HAON	
	Return of goods at the original VAT rate of x%		<ESC>HANR	<ESC>HAOR	
	discount on goods		<ESC>HBNN	<ESC>HBON	
	deducted advance		<ESC>HCNN	<ESC>HCON	
	exchange of voucher		<ESC>HDNN	<ESC>HDON	
EXEMPTION FROM TAX 0%	Exemption from tax * (OD)	sale of goods	<ESC>3NNN		<ESC>3NON
		returning goods		<ESC>6ANN	<ESC>6AON
		discount on goods		<ESC>6BNN	<ESC>6BON
		deducted advance		<ESC>6CNN	<ESC>6CON
		exchange of voucher		<ESC> 6DNN 6DON	
	Shift of a tax liability* (PDP)	sale	<ESC>3NNP		<ESC>3NOP
		return		<ESC>6ANP	<ESC>6AOP
		Discount		<ESC>6BNP	<ESC>6BOP
		deducted advance		<ESC>6CNP	<ESC>6COP
		exchange of voucher		<ESC>6DNP	<ESC>6DOP
	Travel agencies* (CK)	sale	<ESC>3NNK		<ESC>3NOK
		return		<ESC>6ANK	<ESC>6AOK
		Discount		<ESC>6BNK	<ESC>6BOK
		deducted advance		<ESC>6CNK	<ESC>6COK
		exchange of voucher		<ESC>6DNK	<ESC>6DOK
	Used goods* (PT)	sale	<ESC>3NNT		<ESC>3NOT
		return		<ESC>6ANT	<ESC>6AOT
		Discount		<ESC>6BNT	<ESC>6BOT
		deducted advance		<ESC>6CNT	<ESC>6COT

	exchange of voucher		<ESC>6DNT	<ESC>6DOT	
Artworks* (UD)	sale	<ESC>3NNU			<ESC>3NOU
	return		<ESC>6ANU	<ESC>6AOU	
	Discount		<ESC>6BNU	<ESC>6BOU	
	deducted advance		<ESC>6CNU	<ESC>6COU	
	exchange of voucher		<ESC>6DNU	<ESC>6DOU	
Collectors' items and antiques* (ZPS)	sale	<ESC>3NNZ			<ESC>3NOZ
	return		<ESC>6ANZ	<ESC>6AOZ	
	Discount		<ESC>6BNZ	<ESC>6BOZ	
	deducted advance		<ESC>6CNZ	<ESC>6COZ	
	exchange of voucher		<ESC>6DNZ	<ESC>6DOZ	
Rounding *	Cash to plus amount	<ESC>3NNC			
	Cash to minuuus amount		<ESC>6ANC		
* a tag providing a detailed specification of the reason for 0 tax rate dispensation N, P, K, T, U, Z, C					
Returnable containers (VO)	sale	<ESC>7NNN			<ESC>7NON
	buyout - containers		<ESC>8ANN	<ESC>8AON	

Payment of the invoice (UF, PUF)	Payment of the invoice	<ESC>0NNN			
	Cancellation of invoice payment		<ESC>9ANN		

Receipt according to customer's wishes ?

No problem for programmer

Example 6.1.0 Example of the document formatting option.
One item receipt in six modifications....
....or a demonstration of solution variability in CHDU5001.

Example: Model receipt with 1 entry for the purchase of a washing program for 10.5 EUR.

	INPUT FILE download	PRINT OUTPUT to view
A.) One item receipt - with an item in the 1st line	<u>Input receipt A</u>	<u>Output receipt A</u>
B.) One item receipt - with an item in more lines	<u>Input receipt B</u>	<u>Output receipt B</u>
C.) One item receipt - with receipt body header - and an item in more lines.	<u>Input receipt C</u>	<u>Output receipt C</u>
D.) One item receipt - with receipt body header, - an item in more lines, - and customer identification.	<u>Input receipt D</u>	<u>Output receipt D</u>
E.) One item receipt - with receipt body header, - an item in 2 lines, - customer identification - and print a barcode coupon to use the car wash within the receipt body.	<u>Input receipt E</u>	<u>Output receipt E</u>
F.) One item receipt - with internal receipt number in the form of the barcode - with receipt body header, an item in more lines, - customer identification - and print a barcode coupon to use the car wash in a separate receipt.	<u>Input receipt F</u>	<u>Output receipt F</u>

Example 6.1.1 Positive cash register document (PD) with multiline item

<ESC> b ^t or <ESC> b ^{ee_mail} ^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
^bw2^k^bh30^k^bH2^k^b4*INTERNE CISLO*^k <CR><LF> ^BKód tovaru <CR><LF> Názov tovaru <CR><LF> Množstvo MJ cena/MJ DPH cena celkom <CR><LF> =====^N <CR><LF>	Variable document header - Not required For example: ^b - Print barcode with Internal Document Number Header of entry description in a cash receipt. Font highlight ^B - Retrieving bold font printing or ^H - high font ^N - Undo to Normal font
^B^DKód tovaru: 859400922385<CR><LF> Pivo Krušovice 10° celé balenie 6ks^k^N <CR><LF> ^Q6^k x ^Mks^k ^J0.750^k <ESC>1NNN 4.50 EUR <CR><LF> ^bw2^k^bh30^k^bH2^k^b4*85940092238 5*^k <CR><LF>	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables <ESC>1NNN - Positive item at 23% VAT1 rate ^b - Barcode printing
^B^DKód tovaru: 8586002900019<CR><LF> § Octanový krém proti bolesti na predpis<CR> <LF> "Expirácia 09.10.2022 " ^k^N <CR><LF>	2nd document item ^D - Item name, in several lines
70 % úhrada poisťovňou<CR><LF>	Variable document body - Not required
^Q1^k x ^Mks^k ^J11.500^k <ESC>2NNN 11.50 EUR <CR><LF> ^bw2^k^bh30^k^bH2^k^b4*85860029000 19*^k <CR><LF>	<ESC>2NNN - Positive item at 19% VAT2 rate
^B^Dnázov položky 3^k^N ^Q1^k x ^Mks^k x ^J0.500^k <ESC>3NNN 0.50 EUR <CR><LF> <ESC>k 16.50 <CR><LF>	<ESC>3NNN - positive item in exemption from VAT rate, by reason of assigning to VAT3 rate as tax exemption Final price
^BPrijatá hotovosť: <ESC>P1 20.00 <CR><LF>	Variable document footer 1 - not required Means of payment
Výdavok: <ESC>P1 -3.50 <CR><LF>	Variable document footer 2 - not required Means of payment
^N<CR><LF> ^c1123456^k <CR><LF>	^c1 - identification of customer's IČO The permissible values [0-9a-zA-Z] character Space is not allowed.ICO = 123456
VAROS TRADE s.r.o. ^bw2^k^bh30^k^bH2^k^b4*VAROS TRADE*^k <CR><LF>	Variable document footer 3. For example: Customer company name + barcode printing
<ESC>e	End of document
Note: The order ^D, ^Q, ^J, and ^M does not matter but they must be terminated with ^k and placed before the <ESC>tax level sequence. Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, <ESC>1NNN, 2NNN, 3NNy definition of tax level, basic rate, reduced and exempted from VAT. When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation. Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification ^V single-purpose voucher, ^J unit price, ^M unit of measure Forbidden variables : ^I number of INV	
INPUT FILE download	CLICK to Input receipt
PRINT OUTPUT to view	CLICK to Output receipt

Example 6.1.2 Positive cash receipt (PD), with item on line 1

<ESC> b^t or <ESC> b^{ee}_mail^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
^BNázov Množstvo Cena celkom <CR><LF> =====^N <CR><LF>	Variable document header For example: Header of the item description of the cash receipt. Font highlight ^B - Retrieving bold font printing or ^H - high font ^N - Undo to Normal font
^DKáva^k^{Q1}^k ^{Mks}^k <ESC>1NNN 1.50 EUR <CR><LF>	1st document item ^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables <ESC>1NNN - Positive item at 23% VAT1 rate
^DSmotana^k^{Q1}^k ^{Mks}^k <ESC>1NNN 0.50 EUR <CR><LF>	2nd document item <ESC>1NNN - Positive item in at the basic 23% VAT rate
^DMinerálka^k^{Q1}^k ^{Mks}^k <ESC>1NNN 1.50 EUR <CR><LF>	3rd document item <ESC>1NNN - Positive item at basic 23% VAT rate
^DKoláč "Špic"^k^{Q1}^k ^{Mks}^k <ESC>1NNN 1.50 EUR <CR><LF>	4th document item <ESC>1NNN - Positive item at basic 23% VAT rate
^B***Ku každej 2 káve, zmrzlina zadarmo***^N	Variable document body
<ESC>k 5.00 <CR><LF>	Final price
	Variable footer of document 1
<ESC>P1 5.00 <CR><LF>	Means of payment
<CR><LF> ^B***Dakujeme za Vašu návštevu***^N	Variable footer of document 2
<ESC>e	End of document
Note: The order ^D , ^Q , ^J , and ^M does not matter but they must be terminated with ^k and placed before the <ESC>tax level sequence. Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, <ESC>1NNN, 2NNN, 3NNy definition of tax level, basic rate, reduced and exempted from VAT. When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation. Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification ^V single-purpose voucher, ^J unit price, ^M unit of measure Forbidden variables : ^I number of INV	
Warning: If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of sending the document when using <ESC>I.	
INPUT FILE download	Input receipt
PRINT OUTPUT to view	Output receipt

Example 6.1.3 Positive cash receipt (PD) identifying the two retailers on whose behalf the goods or services were sold

<ESC> b^t or <ESC> b^ee_mail^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
^bw2^k^bh30^k^bH2^k^b4*INTERNE CISLO*^k <CR><LF> ^BKód tovaru <CR><LF> Názov tovaru <CR><LF> Množstvo MJ cena/MJ cena celkom <CR><LF> =====^N <CR><LF>	Variable document header For example: Header of the item description of the cash receipt. Font highlight ^B - Retrieving bold font printing or ^H - high font ^N - Undo to Normal font
^B^DKód tovaru: Palivo BA95<CR><LF> Natural 95 SuperMax (E10)^k^N <CR><LF> stojan č.6 <CR><LF> ^Q45.000^k ^Mlit^k x ^J1.000^k ^S12020102030^k <ESC>1NNN 45.00 EUR <CR><LF> Predajca pohonných hmôt a mazív.<CR><LF> <CR><LF>	1st document item specifying the retailer ^S1 - identification of the retailer's tax ID (DIČ) DIČ=2020102030 ^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables <ESC>1NNN - Positive item at 23% VAT1 rate
^B^DKód tovaru: e-známka<CR><LF> Ročná diaľničná známka do 3,5t^k^N <CR><LF> ^Q1.000^k ^Mks^k x ^J50.000^k ^S2SK2030112233^k <ESC>3NNN 50.00 EUR <CR><LF> Predajca diaľničných známok.<CR><LF> <CR><LF>	2nd document item specifying the retailer ^S2 - identification of the retailer's VAT_ID (IC_DPH) IC_DPH=2030112233 <ESC>3NNN - Positive value in exemption from VAT rate
^Dkáva^k^Q1.000^k ^Mks^k <ESC>1NNN 1.50 EUR <CR><LF> <CR><LF>	3rd document item on line 1 <ESC>1NNN - Positive item at basic 23% VAT rate
<ESC>k 96.50<CR><LF>	Final price
<ESC>P2 96.50 <CR><LF>	Means of payment 2 - Payment card
<CR><LF> ^B^c4vernostna karta^k <CR><LF> Fferko Mrkvicka^N<CR><LF>	^c1 - Customer identification - OTHER, e.g. loyalty card No. OTHER= loyalty_card The permissible values [0-9a-zA-Z] character Space is not allowed. Variable footer For example: Cardholder's name Fferko Mrkvicka
<ESC>e	End of document
Note: The order ^D, ^Q, ^J and ^M does not matter, but they must be terminated by ^k and be a sequence for the tax level for <ESC>. Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, <ESC>1NNN, 2NNN, 3NNY definition of tax level, basic rate, reduced and exempted from VAT When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation. Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification ^V single-purpose voucher, ^J unit price, ^M unit of measure Forbidden variables : ^I number of INV	
Warning: It is possible to sell goods of two taxpayers on one eKasa while it is necessary to enter tax ID (DIČ) with the item: ^S1, or VAT ID (IC DPH): ^S2 of the retailer on whose behalf the goods or services were sold.	
INPUT FILE download	Input receipt
PRINT OUTPUT to view	Output receipt

Example 6.1.4 Positive cash receipt (PD) with a tax exemption item specifying the reason for 0% tax with identifying the retailer on whose behalf the goods were sold or services were provided.

<ESC> b^t or <ESC> b^ee_mail^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
^Dnázov položky 1^k <CR><LF> ^Q1^k ^Mks^k x ^J15.00^k^S2SK2345678^k <ESC>3NNP 15.00 EUR <CR><LF> Predávajúci s prenesenou daňovou povinnosťou.	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables <ESC>3NNP - a positive item with specifying information about exemption from VAT rate dispensation by virtue of the shifted tax liability. ^S2 -IC_DPH - (VAT ID) identification of the retailer on whose behalf the goods were sold or services were provided. IC_DPH=12345678 Optional text: Retailer with transferred tax liability.
<ESC>k 15.00<CR><LF>	Final price
<ESC>P1 15.00 <CR><LF>	Means of payment 1 - Cash
^c169696969^k <CR><LF>	^c1 - - identification of customer's IČO ICO=69696969
<ESC>e	End of document

Note:

This type of document is used to specify in more detail the reason for linking to the rate exempt from VAT,
<ESC>3NNy.

Options (y)

<ESC>3NNP - PDP - the shift of tax liability may also occur:

<ESC>3NNN - OOD - Tax exemption

<ESC>3NNK - CK - Ttravel agencies

<ESC>3NNT - PT - Used goods

<ESC>3NNU - UD - Works of art

<ESC>3NNZ - ZPS - Collectible objects and antiques

The order ^D, ^Q, ^J, ^M and ^S does not matter but they must be terminated with ^k and placed before the <ESC>tax level sequence.

Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity,

<ESC>3NNy definition of tax level

When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation.

Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification
^V single-purpose voucher, ^J unit price, ^M unit of measure

Forbidden variables : ^I number of INV

Warning:

The reason for 0 level rate dispensation will be automatically printed as a tax level indication. Instead of 0%, the abbreviation will be printed in terms of specifying information. (OOD, PDP, CK, PT, UD, ZPS).

^S1 or ^S2, Retailer - identification of the retailer on whose behalf the goods were sold or services were provided.

INPUT FILE download

[Input receipt](#)

PRINT OUTPUT to view

[Output receipt](#)

Example 6.1.5 <ESC>b cash receipt for return of goods or services (PD)

<ESC> b^t or <ESC> b^{ee_mail}^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
Pokladničný doklad vrátenie tovaru ===== vrátenie tovaru <CR><LF> ^Dnázov položky^k <CR><LF> ^{Q1}^k ^{Mks}^k x ^J-29.90^k ^RUID-číslo pôvodného dokladu^k <ESC>4ANN -29.90 EUR <CR><LF>	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^R - UID number of the original document ^k - Ending character for variables <ESC>4ANN - negative item - the type of return of goods or service at 23% VAT1 rate
	<ESC>5ANN - negative item - the return of goods or service at 19% VAT2 rate <ESC> 6ANy - negative item - the return of goods or services at VAT3 exemption rate with reason for dispensation.
<ESC>k -29.90 <CR><LF>	Final price with minus sign
<ESC>P1 -29.90 <CR><LF>	Means of payment 1 - Cash In the case of a negative value, a minus sign is also given.
^{c3}SK1234567890^k <CR><LF>	^{c3} - customer identification IČ_DPH IČ_DPH=SK1234567890
<ESC>e	End of document

Note:

This type of document is used to return goods or services.

It is necessary to define the tax level precisely **<ESC>4ANN**, **<ESC>5ANN** or **<ESC>6ANy** and the original document number in the form **^RUID^k** concerned.

UID - unique document identifier. Means of payment is stated also with a negative symbol.

The order of ^D, ^Q, ^J, ^M, and ^R is not important, but it must be terminated with ^k and must be before the <ESC>tax level sequence.

Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, ^R UID the origin of document,

<ESC>4ANN, 5ANN, 6ANy definition of tax level

When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation.

Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification
^V single-purpose voucher, ^J unit price, ^M unit of measure

Forbidden variables : ^I number of INV

Warning:

We recommend creating additional items in your database to save the figures in

OKP - entrepreneur's verification code has 44 characters

UID - 34 character unique identifier of the document

It is necessary to send the identifier if some items of document are returned or corrected.

The identifier will be a part of the information obtained using the sequence <ESC>I.

INPUT FILE download

[Input receipt](#)

PRINT OUTPUT to view

[Output receipt](#)

Example 6.1.6 Positive cash register document with a discount

<ESC> b ^t or <ESC> b ^{ee} _mail ^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
Pokladničný doklad so zľavou =====	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^D - Item name of a discount type ^k - Ending character for variables
^D názov položky 1 ^k <CR><LF> ^Q 3 ^k ^M ks ^k ^J 1.50 ^k <ESC>1NNN 4.50 EUR <CR><LF> ^Q 1 ^k ^M x ^k ^D Zľava 10% ^k v DPH <ESC>4BNN -0.45 EUR <CR><LF>	<ESC>1NNN – positive item at 23% VAT1 rate <ESC>4BNN - negative item of a discount at 23% VAT1 rate
^D názov položky 2 ^k <CR><LF> ^Q 1 ^k ^M ks ^k ^J 11.50 ^k <ESC>2NNN 11.50 EUR <CR><LF> ^Q 1 ^k ^M x ^k ^D Zľava 10% ^k v DPH <ESC>5BNN -1.15 EUR <CR><LF>	<ESC>2NNN – positive item at 10% VAT2 rate <ESC>5BNN - negative item of a discount at 19% VAT1 rate
<ESC>k 14.40 <CR><LF>	Final price
<ESC>P1 14.40 <CR><LF>	Means of payment
^c 4Snehulienka ^k <CR><LF>	^c 4 - customer identification TEXT TEXT = Snehulienka
<ESC>e	End of document

Note:

In the case of a discount on the quantity of goods, the number 1 will be given as a unit of quantity at the discount.

The order of ^D, ^Q, ^J and ^M is not important but they must be terminated with ^k and must be placed before <ESC> tax level sequence.

Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, <ESC>1NNN, 2NNN, 3NNy definition of tax level

When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation.

Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification
^V single-purpose voucher, ^J unit price, ^M unit of measure

Forbidden variables : ^I number of INV

Warning:

The discount must always be linked to the same tax level as the positive item of the document to which the discount relates. Positive item amount minus discount must be equal to or greater than 0.

- | | | |
|---------------------------------------|---|-----------|
| a) positive item at a basic rate | <ESC>1NNN, negative item of discount type | <ESC>4BNN |
| b) positive item at a reduced rate: | <ESC>2NNN, negative item of discount type | <ESC>5BNN |
| c) positive entry at the exempt rate: | <ESC>3NNy, negative item of discount type | <ESC>6BNy |

If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of sending the document when using <ESC>I.

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Example 6.1.7. Cash receipt with deduction of advance payment

<ESC> b ^t or <ESC> b ^{ee_mail} ^k	<ESC>b - the beginning of the document ^t - printed document or ^e – document sent electronically
Pokladničný doklad s odpočítanou zálohou	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables <ESC>1NNN - positive item at 23% VAT rate <ESC>4CNN - negative item - deducted advance payment at 23% VAT1 rate
^D názov položky 1 ^k <CR><LF> ^Q 1 ^k ^M ks ^k ^J 150.00 ^k <ESC>1NNN 150.00 EUR <CR><LF> ^Q 1 ^k ^M x ^k ^D odpočítaná záloha ^k <ESC>4CNN -15.00 EUR <CR><LF>	
<ESC>k 135.00 <CR><LF>	Final price
<ESC>P2 135.00 <CR><LF>	Means of payment 2 – Payment card
^c 169696969 ^k <CR><LF>	^c 1 - identification of customer's IČO IČO=69696969
<ESC>e	End of document
Note: The order of ^D , ^Q , ^J and ^M is not important but they must terminated with ^k and must be placed before <ESC>the tax level sequence. Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, <ESC>1NNN, 2NNN, 3NNy definition of positive tax level, <ESC>4CNN, 5CNN, 6CNy definition of negative tax level for deducted advance. When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation. Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification ^V single-purpose voucher, ^J unit price, ^M unit of measure Forbidden variables : ^I number of INV	
Warning: The advance payment can also be used as a separate document entry, as a negative document, e.g. an advance payment return. At that time, however, a negative sign must also be used for the payment. If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of sending the document when using <ESC>I.	
INPUT FILE download	Input receipt
PRINT OUTPUT to view	Output receipt

Example 6.1.8 Cash receipt with exchange voucher

<ESC> b ^t or <ESC> b ^{ee_mail} ^k	<ESC>b - the beginning of the document ^t - printed document or ^e – document sent electronically
Pokladničný doklad s úhradou poukazom	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^V - Number, or series and the number of single-purpose voucher (1 to 50 characters) ^k - Ending character for variables
^D názov položky 1 ^k <CR><LF> ^Q 1 ^k ^M ks ^k ^J 15.00 ^k <ESC>1NNN 15.00 EUR <CR><LF> ^Q 1 ^k x ^D úhrada poukazom ^k ^V AB000101 ^k <ESC>4DNN -10.00 EUR <CR><LF>	<ESC>1NNN - positive item at 23% VAT1 rate <ESC>4DNN – negative item - exchange voucher at the 23% VAT1 rate
<ESC>k 5.00 <CR><LF>	Final price
<ESC>P1 5.00 <CR><LF>	Means of payment 1 - Cash
^c 169696969 ^k <CR><LF>	^c 1 - identification of customer's IČO IČO=69696969
<ESC>e	End of document

Note:

The order of ^D, ^Q, ^J, ^M, and ^V is not important but they must terminated with ^k and must be before <ESC>the tax level sequence.

Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, ^V single-purpose voucher, <ESC>1NNN, 2NNN, 3NNy tax level definition

When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation.

Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification
^J unit price, ^M unit of measure

Forbidden variables : ^I number of INV

Warning:

The value of the voucher may be less than or equal to the value of the goods.

The voucher must always be linked to the same tax level as the positive item of the document to which it relates. Positive item amounts must be equal to or greater than 0.

a) positive item at a basic rate <ESC>1NNN, negative item of voucher type <ESC>4DNN
b) positive item at a reduced rate: <ESC>2NNN, negative item of voucher type <ESC>5DNN
c) positive item at the exemption rate: <ESC>3NNy, negative item of voucher type <ESC>6DNy

If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of sending the document when using <ESC>I.

INPUT FILE download

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PRINT OUTPUT to view

[Output receipt](#)

Example 6.1.9 Negative cash receipt - redeemed returnable packaging

<ESC> b^t or <ESC> b^ee_mail^k	<ESC>b - the beginning of the document ^t - printed document or ^e – document sent electronically
Pokladničný doklad vykúpené vratné obaly<CR><LF> =====	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables
<CR><LF> ^Q10^k ^Mks^k ^Dvrátené fľaše^k ^J- 0.13^k <ESC>8ANN -1.30 EUR <CR><LF>	<ESC>8ANN - záporná položka typu vykúpené vratné obaly v oslobodenej sadzbe od DPH
<ESC>k -1.30 <CR><LF>	Final price
<ESC>P1 -1.30 <CR><LF>	Means of payment. In the case of a negative value, they are also given with a minus sign .
^c22020123456789^k <CR><LF>	^c2 - customer identification DIČ DIČ = 2020123456789
<ESC>e	End of document
Note: This type of document serves to redeem the returnable packaging. This item of the document can also be used within the standard positive cash register document. The order ^D, ^Q , ^J and ^M is not important but they must terminated with ^k and must be placed before <ESC>the tax level sequence. Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, <ESC>8ANN definition of the tax level When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation. Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification ^V single-purpose voucher, ^J unit price, ^M unit of measure Forbidden variables : ^I number of INV	
Warning: If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of sending the document when using <ESC>I.	
INPUT FILE download	Input receipt
PRINT OUTPUT to view	Output receipt

Example 6.1.10 Cash receipt with corrective item (both positive and negative)

<ESC> b ^t or <ESC> b ^{ee_mail} ^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
Opravný doklad s kladnou aj zápornou položkou<CR><LF> <CR><LF> ^Dnázev položky 1^k <CR><LF> ^Q1^k ^Mks^k ^J-1.50^k ^RUID-číslo pôvodného dokladu^k <ESC>1NON -1.50 EUR <CR><LF> ^Q1^k x ^DZľava 10%^k <ESC>4BON 0.15 EUR <CR><LF>	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^R - The number of original UID document to which the current document applies ^k - Ending character for variables <ESC>1NON - corrective item (negative) to the original item in <ESC>1NNN <ESC>4BON - corrective item (positive) to the original item in <ESC>4BNN
<ESC>k -1.35 <CR><LF>	Konečná suma
<ESC>P1 -1.35 <CR><LF>	Means of payment 1 - Cash In the case of a negative value of the means of payment, it should be indicated with a minus sign.
^c 169696969 ^k <CR><LF>	^c 1 - identification of customer's IČO IČO=69696969
<ESC>e	End of document

Note:

This type of document is used to correct document items which are already sent and registered in the e-kasa system. This is a correction in both positive and negative directions. Therefore, it is necessary to define precisely the tax level at which the correction is to be made and the number of the original document in the form ^RUID^k to which it relates.

UID – Unique identifier of the document to which the corrective item applies.

In case of a negative value of the item amount, we provide you also with a negative symbol!

The order of ^D, ^Q, ^J, ^M, and ^R is not important, but it must be terminated with ^k and must be placed before <ESC>the tax level sequence.

Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, ^R UID origin.document, <ESC>1NON, 2NON, 3NOy, 4xON, 5xON, 6xOy definition of tax level, x= item type, y= reason for dispensation to 0%, more detailed on p. 31

Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification
^V single-purpose voucher, ^J unit price, ^M unit of measure

Forbidden variables : ^I number of INV

Warning:

We recommend creating additional items in your database to save values in

OKP - entrepreneur's verification code has 44 characters

UID - 34 character unique identifier of the document

It is necessary to send the identifier if some items of document are returned or corrected.

The identifier will be a part of the information obtained using the sequence <ESC>I.

INPUT FILE download

[Input receipt](#)

PRINT OUTPUT to view

[Output receipt](#)

Example 6.1.11 Positive cash receipt (PD) with coupon printing, e.g. in a car wash in the body of the document.

<ESC> b ^t or <ESC> b ^{ee} _mail ^k	<ESC>b - the beginning of the document ^t - printed document or ^e – document sent electronically
*****<CR><LF> * * * U M Y V Á R K A * * * <CR><LF> *****<CR><LF>	Optional document body. E.g. header C A R W A S H
^H ^D Umývací program č.1 ^k ^N <CR><LF> ^Q 1 ^k ^M x ^k ^J 10.50 ^k <ESC>1NNN 10.50 EUR <CR><LF>	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables <ESC>1NNN – positive item at 23% VAT1 rate
^H Umývací program č.1 ^B Platí od: ^H 15.09.2020 ^B Čas: ^H 14:00 ^B (Platnosť 7 nasledujúcich dní) Otváracie hodiny ^H AutoSuperWash ^B od: ^H 08:00 ^B do: ^H 20:00 ^N ^{bw} 2 ^k ^{bh} 100 ^k ^{bH} 2 ^k ^b 4150920UP122 0920 ^k *****<CR><LF> *** NAČÍTAJTE ČIAROVÝ KÓD ***<CR><LF> *****<CR><LF>	Optional document body. E.g. printing a coupon with a barcode for the car wash Highlighted font ^B - retrieving bold font printing or ^H high font ^N - Undo back to Normal Font ^b - Barcode printing, in the form as: Date of validity from:, what, date of validity until: 150920 - Date of validity from: 15.09.2020 UP1 – washing programme 1 220920 - Date of validity until: 22.09.2020
	Variable document body 2
<ESC>k 10.50 <CR><LF>	Final price
<ESC>P2 10.50 <CR><LF>	Means of payment
^N <CR><LF>	
VAROS TRADE s.r.o. ^{bw} 2 ^k ^{bh} 30 ^k ^{bH} 2 ^k ^b 4*VAROS TRADE* ^k <CR><LF>	Variable document footer 3. For example: Customer's company name + barcode printing
<ESC>e	End of document
Note: The order ^D , ^Q , ^J , and ^M is not important but they must terminated with ^k and be placed before <ESC>the tax level sequence. Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, <ESC>1NNN, 2NNN, 3NNy definition of the tax level, basic rate, reduced and exempted from VAT. When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation. Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification ^V single-purpose voucher, ^J unit price, ^M unit of measure Disabled Variables : ^I number of INV	
Warning: If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of the document when using <ESC>I	
INPUT FILE download	Input receipt
PRINT OUTPUT to view	Output receipt

Example 6.1.12 Positive cash receipt (PD) with coupon printing, e.g. to a car wash together with the document. (<ESC>b+ <ESC>n in one file.)

<ESC> b^t or <ESC> b^ee_mail^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
^bw2^k^bh30^k^bH2^k^b4*INTERNE CISLO*^k <CR><LF> ^BKód tovaru <CR><LF> Názov tovaru <CR><LF> Množstvo MJ cena/MJ DPH cena celkom <CR><LF> =====^N <CR><LF>	Variable document header For example: ^b - Printing barcode with Internal Document Number Header of item description in cash receipt. Highlighted font ^B - retrieving bold font printing or ^H - High font ^N - Undo back to Normal Font
^B^DKód tovaru: AutoSuperWash<CR><LF> Umývací program č.1^k^N <CR><LF> Platí od: 15.09.2020 do: 22.09.2020 ^Q1^k ^Mks^k x ^J10.500^k <ESC>1NNN 10.50 EUR <CR><LF>	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables <ESC>1NNN - positive item at 23% VAT1 rate
<ESC>k 10.50 <CR><LF>	Final price
<ESC>P2 10.50 <CR><LF>	Means of payment
^N<CR><LF> ^c4vernostnakarta^k <CR><LF>	^c1 - identification of customer - OTHER The permissible values of [0-9a-zA-Z] character Space is not allowed. OTHER = loyalty card
Ferko Mrkvička	Variable document footer 3.
<ESC>e	End of document
<ESC>n	<ESC>n - začiatok ostatného dokladu
*****<CR><LF> * * * U M Y V Á R K A * * * <CR><LF> *****<CR><LF> ^HUmývací program č.1 ^BPlatí od: ^H15.09.2020^B Čas: ^H14:00^B (Platnosť 7 nasledujúcich dní) Otváracie hodiny ^HAutoSuperWash^B od: ^H08:00^B do: ^H20:00^N *****<CR><LF> *** NAČÍTAJTE ČIAROVÝ KÓD ***<CR><LF> V SMERE ŠÍPKY <CR><LF> *****<CR><LF> ^bw2^k^bh100^k^bH2^k^b4150920UP122 0920^k XX XX <CR><LF> XX XX <CR><LF> XX XX XX XX <CR><LF> XXXX XXXX <CR><LF> XX XX <CR><LF> XXXX <CR><LF> XX <CR><LF> <CR><LF> <CR><LF> <CR><LF> ^Ei	Optional document body. E.g. printing a coupon to a car wash Highlighted font ^B - retrieving bold font printing or ^H - High font ^N - Undo back to Normal Font ^b Barcode printing, in the form as: Date of validity from:, what, date of validity until: 150920 - Date of validity from: 15.09.2020 UP1 - washing programme 1 220920 - date of validity until: 22.09.2020 ^Ei - Cutting the other document
INPUT FILE download	Input receipt
PRINT OUTPUT to view	Output receipt

Example 6.1.13 Positive cash receipt, positive rounding of the means of payment - Cash

<ESC> b^t

or

<ESC> b^{ee}_mail^k

^BNázov Množstvo Cena celkom <CR><LF>
=====^N <CR><LF>

^DKáva ^k^Q1^k ^Mks^k <ESC>1NNN 1.50 EUR <CR><LF>

^Dsmotana ^k^Q1^k ^Mks^k <ESC>1NNN 0.50 EUR <CR><LF>

^Dminerálka ^k^Q1^k ^Mks^k <ESC>1NNN 1.50 EUR <CR><LF>

^DKoláč "Špic" ^k^Q1^k ^Mks^k <ESC>1NNN 1.48 EUR <CR><LF>

^DZaokrúhlenie^k^Q1^k ^Mx^k <ESC>3NNC 0.02 EUR <CR><LF>

^B***Ku každej 2 káve, zmrzlina zadarmo***^N

<ESC>k 5.00 <CR><LF>

<ESC>P1 5.00 <CR><LF>

<CR><LF>

^B***Ďakujeme za Vašu návštevu***^N

<ESC>e

Note:

The order ^D, ^Q, ^J, and ^M is not important but they must be terminated with ^k and be placed before <ESC>the tax level sequence

Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, <ESC>1NNN, 2NNN, 3NNy definition of the tax level, basic rate, reduced and exempted from VAT. When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation.

Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification
^V single-purpose voucher, ^J unit price, ^M unit of measure

Forbidden variables : ^I number of INV

Warning:

If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of a sent document when using <ESC>I.

INPUT FILE download

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PRINT OUTPUT to view

[Output receipt](#)

Example 6.1.14 Positive cash receipt, negative rounding of the means of payment - Cash

<ESC> b^t

or

<ESC> b^{ee}_mail^k

^BNázov Množstvo Cena celkom <CR><LF>
=====^N <CR><LF>

^DKáva ^k^Q1^k ^Mks^k <ESC>1NNN 1.50 EUR <CR><LF>

^Dsmotana ^k^Q1^k ^Mks^k <ESC>1NNN 0.50 EUR <CR><LF>

^Dminerálka ^k^Q1^k ^Mks^k <ESC>1NNN 1.50 EUR <CR><LF>

^DKoláč "Špic" ^k^Q1^k ^Mks^k <ESC>1NNN 1.52 EUR <CR><LF>

^DZaokrúhlenie^k^Q1^k ^Mx^k <ESC>6ANC-0.02 EUR <CR><LF>

^B***Ku každej 2 káve, zmrzlina zadarmo***^N

<ESC>k 5.00 <CR><LF>

<ESC>P1 5.00 <CR><LF>

<CR><LF>

^B***Ďakujeme za Vašu návštevu***^N

<ESC>e

Note:

The order ^D, ^Q, ^J and ^M does not matter, but they must be completed ^k and be placed before <ESC>the tax sequence.

Mandatory variables : ^t or ^e document type, ^D item name, ^Q quantity, <ESC>1NNN, 2NNN, 3NNy definition of the tax level, basic rate, reduced and exempted from VAT. When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation.

Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification
^V single-purpose voucher, ^J unit price, ^M unit of measure

Forbidden variables : ^I number of INV

Warning:

If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of the sent document when using <ESC>I.

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Example 6.2 Invoice payment (UF)

<ESC> B^t or <ESC> B^{ee}_mail^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
^BPotvrdenie k hotovostnej úhrade faktúry^N	Variable document header
^{bw}2^k^{bh}50^k^{bH}2^k^b418100001^k	Barcode of INV for electronic processing
^I18100001^k <CR><LF> <ESC>0NNN 1000.00 EUR <CR><LF>	^I - Invoice number (max .: 50 characters) ^k - Terminating character <ESC>0NNN - positive item for the invoice payment
	Variable document body
<ESC>k 1000.00 <CR><LF>	Final price
	Variable document footer 1
<ESC>P1 1000.00 <CR><LF>	Means of payment is stated with a sign.
^B^c22020123456789^k <CR><LF> Varos Trade, s.r.o., Banská Bystrica^N Platbu prijal: <div style="text-align: center;">_____</div> podpis	Variable document footer 2 ^c - customer identification DIČ DIČ=2020123456789
<ESC>e	End of document
Note: For <ESC>B we admit also <ESC>9ANN - negative item for the payment of invoices, i.e. cancellation of invoice payment. Mandatory variables : ^t or ^e document type, ^I invoice number, <ESC>0NNN, <ESC>9ANN . ^I must be terminated with ^k . Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification Forbidden variables : ^D item name, ^Q quantity, ^R UID of original document	
Warning: If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of the sent document when using <ESC>I.	
INPUT FILE download	Input receipt
PRINT OUTPUT to view	Output receipt

Example 6.2.1 Invoice payment (UF) with currency Cash rounding

<ESC> B^t or <ESC> B^{ee_mail}^k	<ESC>b - the beginning of the document ^t - printed document or ^e - document sent electronically
^BPotvrdenie k hotovostnej úhrade faktúry^N	Variable document header
^{bw2}^k^{bh50}^k^{bH2}^k^{b418100001}^k	Barcode of INV for electronic processing
^I18100001^k <CR><LF> <ESC>0NNN 1000.02 EUR <CR><LF>	^I - Invoice number (max .: 50 characters) ^k - Terminating character <ESC>0NNN - positive item for the invoice payment ^D - Item name
^Dcentové vyrovnanie^k <CR><LF>	^D - Item name
^Q1.00^k ^Mks^k ^J-0.02^k <ESC>6ANC -0.02 EUR <CR><LF>	^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables <ESC>3NNC - positive item of cash rounding <ESC>6ANC - negative item of cash rounding
	Variable document body
<ESC>k 1000.00 <CR><LF>	Final price
	Variable document footer 1
<ESC>P1 1000.00 <CR><LF>	Means of payment is stated with a sign.
^B^c22020123456789^k <CR><LF> Varos Trade, s.r.o., Banská Bystrica^N Platbu prijal: <div style="text-align: center;">_____</div> podpis	Variable document footer 2 ^c2 - customer identification DIČ DIČ=2020123456789
<ESC>e	End of document
Note: For <ESC>B we admit also <ESC>9ANN - negative item for the payment of invoices, i.e. cancellation of invoice payment. Mandatory variables : ^t or ^e document type, ^I invoice number, <ESC>0NNN, <ESC>9ANN . ^I must be terminated with ^k . Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification Forbidden variables : ^D item name, ^Q quantity, ^R UID of original document	
Warning: If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of the sent document when using <ESC>I.	
INPUT FILE download	Input receipt
PRINT OUTPUT to view	Output receipt

Example 6.3 Withdrawal(VY)

<ESC> v ^{^t} or <ESC> v ^{^e} ee_mail ^{^k}	<ESC>b - the beginning of the document ^{^t} - printed document or ^{^e} – document sent electronically
Odvod tržby z I. smeny<CR><LF>	Variable document header
^{^b} w2 ^{^k} ^{^b} h25 ^{^k} ^{^b} H2 ^{^k} ^{^b} 4150920201231 200 ^{^k} <CR><LF>	Barcode of Selection for electronic processing
<ESC>P1 -200.00 <CR><LF>	Means of payment P1-P8
	Variable document body
<ESC>k -200.00 <CR><LF>	Final price in EUR
<CR><LF> Odvod platidiel prevzal:<CR><LF> <CR><LF> <CR><LF> _____ podpis	Variable document footer
<ESC>e	End of document

Note:

Required variables : ^{^t} or ^{^e} document type, <ESC>P - means of payment

Use a negative sign for both the means of payment and the final price.

Optional variables : ^{^b} barcode printing,

Forbidden variables : ^{^P} Pargon, ^{^I} invoice number, ^{^D} item name, ^{^Q} quantity, ^{^c} customer identification, ^{^S} retailer identification, ^{^R} UID of original document

The withdrawal is technically possible with any of the 8 predefined means of payment.

In reality, it should only concern means of payment in cash.

P1 - Cash

P2 - Payment card

P3 - Meal vouchers

P4 - Checks

P5 - Invoice payment

P-6 to 8 - means of payment 6 to 8

Variable header, body, footer, and are optional entries.

INPUT FILE download

[Input receipt](#)

PRINT OUTPUT to view

[Output receipt](#)

Example 6.4 Deposit (VK)

<ESC> V^t or <ESC> V^{ee}_mail^k	<ESC>b - the beginning of the document ^t - printed document or ^e – document sent electronically
Dotácia pokladne pri otvorení predajne <CR><LF> ^{bw}2^k^{bh}25^k^{bH}2^k^b4150920201306 200^k<CR><LF>	Variable document header Barcode of the Deposit for electronic processing
<ESC>P1 200.00 <CR><LF>	Means of payment P1-P8
	Variable document body
<ESC>k 200.00 <CR><LF>	Final price in EUR
<CR><LF> Vklad vykonal: <CR><LF> <CR><LF> <CR><LF> <div style="text-align: right;">_____</div> podpis	Variable document footer
<ESC>e	End of document

Note:

Mandatory variables : ^t or ^e document type, <ESC>P - means of payment, Use a negative sign for both the means of payment and the final price.

Optional variables : ^b barcode printing,

Forbidden variables : ^P Pargon, ^I invoice number, ^D item name, ^Q quantity, ^c customer identification, ^S retailer identification, ^R UID of original document

The deposit is technically possible with any of the 8 predefined means of payment.

In reality, it should only concern means of payment in cash.

P1 - Cash

P2 - Payment card

P3 - Meal vouchers

P4 - Checks

P5 - Invoice payment

P-6 to 8 - means of payment 6 to 8

Variable header, body, footer and are optional entries.

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[Output receipt](#)

Example 6.5 Receipt - cash register document (PPD)

Additional evidence of hand-written document during cash-register failure

<ESC>b^t^P2019110515240500001^k	<ESC>b - začiatok dokladu ^t - vytlačený doklad ^P - 5.11.2019 15:24:05 číslo 90001
Paragón pokladničný doklad <CR><LF> ===== <CR><LF>	Variable document header
^Dnázov položky 1^k <CR><LF> ^Q3^k ^Mks^k ^J1.50^k <ESC>1NNN 4.50 EUR <CR><LF>	^D - Item name ^M - Unit of measure ^J - Unit price ^Q - Quantity (only positive numeric value) ^k - Ending character for variables <ESC>1NNN - positive item at 23% VAT1 rate
^Dnázov položky 2^k <CR><LF> ^Q1^k ^Mks^k ^J11.50^k <ESC>2NNN 11.50 EUR <CR><LF>	<ESC>2NNN - positive item at 19% VAT2 rate
^Dnázov položky 3^k <CR><LF> ^Q1^k ^Mks^k ^J0.50^k <ESC>3NNT 0.50 EUR <CR><LF>	<ESC>3NNT - positive item in exemption from VAT3 rate specifying the reason for the dispensation with used goods
	Variable document body
<ESC>k 16.50 <CR><LF>	Final price
	Variable document footer 1
<ESC>P1 16.50 <CR><LF>	Means of payment
	Variable document footer 2
^c3SK1234567890^k <CR><LF>	^c3 - customer identification IČ_DPH IČ_DPH=SK1234567890
<ESC>e	End of document

Note on the function <ESC>b for PPD:

The paragon (handwritten document) is issued to the customer in the event of a failure of the on-line cash register.

The paragon is **not printing** only registered on the server of eKasa system.

Exactly the same sequence is applied for both the paragon and cash register document.

The difference is in attribute ^PYYYYMMDDhhmmss00001^k i.e. Date and time of the document issue, and paragon number.

The order ^D, ^Q, ^J, and ^M is not important, but they must be terminated with ^k and must be placed before <ESC>the tax level sequence.

Mandatory variables : ^t or ^e document type, ^P date, time, and paragon number, ^D item name, ^Q quantity,

<ESC>1NNN, 2NNN, 3NNy definition of the tax level, basic rate, reduced and exempted from VAT.

When using 0 VAT level with the document item, there is an obligation to define the reason for the rate dispensation.

Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification

^V single-purpose voucher, ^J unit price, ^M unit of measure

Forbidden variables : ^I number of INV

Warning:

If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of the sent document when using <ESC>I.

INPUT FILE download

[Input receipt](#)

Example 6.6. Invoice payment receipt (PUF)**Additional evidence of hand-written paragon during cash-register failure**

<ESC>B^t^P2019110515240890002^k	<ESC>B - Beginning of the document ^P – 5.11.2019 15:24:08 No. 90002 ^t - Printed document
Paragón úhrada faktúry <CR><LF> ===== <CR><LF>	Variable document header
^I18100001^k <CR><LF> <ESC>ONNN 1000.00 EUR <CR><LF>	^I - Invoice number e.g. 1810001 ^k – Terminating character <ESC>ONNN - positive item for the invoice payment
	Variable document body
<ESC>k 1000.00 <CR><LF>	Final price
	Variable document footer 1
<ESC>P1 1000.00 <CR><LF>	Means of payment is stated with a negative sign.
	Variable document footer 2
^c4FerdoMravec^k <CR><LF>	^c4 - the identification of customer TEXT TEXT = Ferdo Mravec
	Variable document footer 3
<ESC>e	End of document

Note for the function <ESC>B for PUF:

For <ESC>B we admit also

<ESC>9ANN - negative item for the payment of invoices, i.e. cancellation of invoice payment.

The receipt as the approval of invoice payment is issued to the customer in the event of a malfunction of the online cash register. The paragon is **not printed** it is only record on the eKasa system server.

Exactly the same sequences are applied for both the receipt and invoice payment.

The difference is in the attribute ^PYYYYMMDDhhmmss00001^k i.e. Date, time of issue, and paragon number.

Mandatory variables : ^t or ^e document type, ^P date, time, and paragon number ^I invoice number, <ESC>ONNN, <ESC>9ANN .

^I and ^P must be terminated with ^k.

Optional variables : ^c customer identification, ^b barcode printing, ^S retailer identification

Forbidden variables : ^D item name, ^Q quantity, ^R UID of original document

Warning:

If you fail to use all attributes correctly within the document, the document will be completed with an error. You can verify the status of the sent document when using <ESC>I

INPUT FILE download

[Input receipt](#)

Example 6.7.1 Other document - Order

<ESC>n^t	<ESC>n - the beginning of the document ^t - printed document or
* * * Objednávka č.69 * * * =====	Document body - any text
1x malé preso <CR><LF> Poznámka: s mliekom <CR><LF> 1x veľké preso <CR><LF> Poznámka: bez cukru <CR><LF> STÓL č: 1 <CR><LF> <CR><LF> <CR><LF> <CR><LF> <CR><LF> ^Ei	When entering a sequence, it is necessary to take into account the technical capabilities of the printer and the positioning of the print head vs. cutting mechanism. Therefore, it is necessary to leave about 5 blank lines before the command. Crop a document
<ESC>e	End of document
Warning: This type of document serves to create other documents. These are all printouts that are not sent to the e-Kasa system, e.g.: Order to the kitchen, issue slip, bill of delivery, cash inventory and so on. In this document type, characters are converted from WIN1250 to Latin2	
INPUT FILE download	Input receipt
PRINT OUTPUT to view	Output receipt

<p><ESC>n^t</p>	<p><ESC>n - the beginning of the document ^t - printed document or</p>
<p>*****</p> <pre> XX XX XXXX XXX XXXXXXX XX XX XX XX XX XX XXXXXXX XX XX XX XXXXX XX XX XX XX XX XX XX XX XXXX XXX XXXX </pre> <p>*****</p> <p>* * * Vstupenka č.3069 * * *</p> <p>*****</p>	<p>Document body - any text</p>
<p>^Hna hokejový zápas majstra ISKRA Banská Bystrica vs HKM Zvolen<CR><LF> <CR><LF> ^BNa deň: ^H15.09.2020^B Čas: ^H17:00^B<CR><LF> (odporúčame prísť 30min skôr)<CR><LF> <CR><LF> vstupná brána: ^HSektor A1^B<CR><LF> rad: ^H5^B sedadlo: ^H16^B <CR><LF></p>	<p>Highlighted font ^H - High font ^B - Bold font Undo ^N - Normal font</p>
<p>^bw2^k^bh150^k^bH2^k^b4*3069150920 A1R05S16*^k</p> <pre> XX XX XX XX XX XX XX XX XXXX XXXX XX XX XXXX XX </pre>	<p>^b barcode printing, e.g. in the form of: ticket number, date, sector, row, seat 3069 – Ticket number 150920 - date A1 - Sector (entrance gate) R05 - 5th row of seats S16 - 16th seat</p>
<p><CR><LF> <CR><LF> <CR><LF> <CR><LF> <CR><LF> ^Ei</p>	<p>When entering a sequence, it is necessary to take into account the technical capabilities of the printer and the positioning of the print head vs. cutting mechanism. Therefore, it is necessary to leave about 5 blank lines before the command.</p> <p>Crop a document</p>
<p><ESC>e</p>	<p>End of document</p>
<p>Warning: This type of document serves to create other documents. These are all printouts that are not sent to the e-Kasa system, e.g.: Order to the kitchen, issue slip, bill of delivery, cash inventory, ticket and so on. In this document type, characters are converted from WIN1250 to Latin2</p>	
<p>INPUT FILE download</p>	<p>Input receipt</p>
<p>PRINT OUTPUT to view</p>	<p>Output receipt</p>

<i>Function:</i>	6.8 Portable cash register location >>>>
<i>Command:</i>	<ESC>G ^G GPS ^k or ^A Physical address ^k or ^O Other ^k <ESC>e
<i>Format:</i>	<0x1B><0x47> <0x5E><0x47>GPS<0x5E><0x6B> or <0x5E><0x41>Adresa<0x5E><0x6B> or <0x5E><0x4F>Iné<0x5E><0x6B> <0x1B><0x65>
<i>Description:</i>	<p>Using Sequence <ESC>G the location of a used portable cash register is reported. It is a new duty to use a portable cash register in different locations at different times. It can take values:</p> <p>^G - GPS, GPS coordinates of the place according to WGS84 coordinate system and it must have the following attributes: X – X-axis string <1-20> characters Y - Y axis string <1-20> characters</p> <p>^A - Physical address, the address of the cash register location and it has the following attributes: M - municipality, (required entry) string <1-100> characters B - house number or the name the building, (optional entry) string <1-100> characters P - postcode (optional entry) string 5 characters [0-9] N - registration number, (optional entry) string <1-10> characters [0-9] S - street (required entry) string <1-100> characters</p> <p>This type of location definition will only be used if it is impossible to acquire accurate GPS coordinates.</p> <p>^O - Other, another way of defining portable cash register location. string <1-20> characters Exaples: Taxi service - plate no.: BB123GY, The sale from a vehicle reg. plate no.: BB999GH, lay-by R1 172km</p> <p>This type of location definition is only used if the location address or GPS coordinates cannot be specified.</p> <p>Function Attributes ^G, ^A, ^O must be ended with ^k Function <ESC>G must be ended with <ESC>e</p>
<i>Note:</i>	Before the first document when selling in a different location, it is necessary to report the location of the use of the cash register to the e-kasa system.
<i>Example 1: GPS coordinates</i>	<ESC>G<CR><LF> ^GX48.745617^k<CR><LF> ^GY19.153277^k<CR><LF> <ESC>e
<i>Example 2: Physical address:</i>	<ESC>G<CR><LF> ^ASRudlovská cesta^k<CR><LF> ^AB53^k<CR><LF> ^AMBANSKÁ BYSTRICA^k<CR><LF> ^AP97401^k<CR><LF> <ESC>e
<i>Example 3: Other</i>	<ESC>G<CR><LF> ^OThe sale from a vehicle plate no.: BB123XY, lay-by R1 172km^k <CR><LF> <ESC>e
<i>Warning:</i>	The information about cash register location is only sent to the FR SR e-kasa, it has no printed output.
INPUT FILE download Input receipt	

7. Sequences Used to Print and Retrieve Copies of Documents

>>>>

<i>Function:</i>	Printing a copy of the document under the unique document number >>>>
<i>Command:</i>	<ESC>C unique document number CR<ESC>e
<i>Format:</i>	<0x1B><0x43> 20123100321 <0x0D><0x1B><0x65>
<i>Description:</i>	<p>After entering the sequence, a copy of the document is printed according to the specified unique document number.</p> <p>YYMMDDccccc = 20123100321 = Date: 31/12/2018 and document no.: 00321</p> <p>If a given document is found and printed, the ACK status symbol is returned to the PC if there is no NAK</p>
<i>Note:</i>	<p>A unique document number can be found using a sequence <ESC>I.</p> <p>The document is printed below the date in dashes.</p> <p>It contains only cash register documents, invoice payments, deposits, withdrawals, and additional e-kasa receipts.</p> <p>It is not included in other documents.</p>

<i>Function:</i>	Identification of a document under a unique document number >>>>
<i>Command:</i>	<ESC>q unique document number CR<ESC>e
<i>Format:</i>	<0x1B><0x71> 21123100531 <0x0D><0x1B><0x65>
<i>Description:</i>	<p>When you send a given sequence, the fiscal printer returns a selected cash register document to the computer. If the document exists, it will return to your computer: acknowledge character ACK+ count/2Byte/ + "requested information"</p> <p>The variable refers to the amount of data sent from the eFT4000, or FT5000, to the length of the document text part)</p> <p>If there is no response to the request, a false NAK is returned to the computer.</p> <p>Unique number has always 11 characters.</p> <p>Unique document number = YYMMDDccccc = 21123100531 = Date: 31/12/2021 and document no.: 00531</p>
<i>Note:</i>	<p>A unique document number can be found using a sequence <ESC>I.</p> <p>The document is printed below the date in dashes.</p> <p>It contains only cash register documents, invoice payments, deposits, withdrawals, and additional e-kasa receipts..</p> <p>They do not contain other cash register documents.</p>

<i>Function:</i>	Printing a copy of the last document >>>>
<i>Command:</i>	<ESC>c<ESC>e
<i>Format:</i>	<0x1B><0x63><0x1B><0x65>
<i>Description:</i>	<p>After the sequence is sent, a copy of the last cash register document is printed.</p> <p>A statement shall be placed to the first line of the ORP document</p> <p>*** Copy of cash register document ***.</p> <p>The date and time of the document is identical to the original.</p>
<i>Note:</i>	With this command, you can print only a copy of the last cash register document, invoice payment, deposit, withdrawal, and a receipt, additionally entered to e-kasa. It is not possible to print a copy of the other document.

<i>Function:</i>	Transfer the last document to the computer >>>>
<i>Command:</i>	<ESC>Q<ESC>e
<i>Format:</i>	<0x1B><0x51><0x1B><0x65>
<i>Description:</i>	<p>The module communicates with the computer via serial or USB interface with HW data flow control.</p> <p>After sending a given sequence, the fiscal printer returns the last cash register document to the computer. If the document exists, it will return to your computer: acknowledge character ACK+ count/2Byte/ + "requested information"</p> <p>If there is no response to the request, a false NAK is returned to the computer.</p>
<i>Note:</i>	<p>With this command it is possible to transfer the receipt that was printed on the cash register printer last to the computer.</p> <p>It refers to cash register document, invoice payment, deposit, withdrawal, and receipts additionally entered to e-kasa. It does not apply to the other documents.</p>

<i>Function:</i>	Identification of the UID document under a unique document number >>>>
<i>Command:</i>	<ESC>U unique document number CR<ESC>e
<i>Format:</i>	<0x1B><0x55> 20101900001 <0x0D><0x1B><0x65>
<i>Description:</i>	<p>When you send a given sequence, the fiscal printer returns the UID of the selected document to the computer.</p> <p>If the document exists, it will return to your computer: acknowledge character ACK+ count/2Byte/ + "requested information"</p> <p>The variable count specifies the number of data sent from the FT5000, to the length of the required information.</p> <p>If there is no response to the request, a false NAK is returned to the computer.</p> <p>Unique number has always 11 characters.</p> <p>Figure of number: YYMMDDcccc = 20101900001 = Date 19/10/2020 and number of document: 00001</p>
<i>Note:</i>	<p>A unique document number can be found using a sequence <ESC>I.</p> <p>The document is printed below the date in dashes.</p> <p>It contains only cash register documents, invoice payments, deposits, withdrawals, and additional e-kasa receipts.</p> <p>They do not contain other cash register documents.</p>

<i>Function:</i>	Printing out continuous balance report (X-balance report) >>>>
<i>Command:</i>	<ESC>x<ESC>e
<i>Format:</i>	<0x1B><0x78><0x1B><0x65>
<i>Description:</i>	<p>After the sequence is set continuous turnover (from last daily balance report was done) is printed out. Filter of documents, which are relating to X-balance report, is printed on report.</p>
<i>Note:</i>	

<i>Function:</i>	Printing out daily balance report >>>>
<i>Command:</i>	<ESC>d<ESC>e
<i>Format:</i>	<0x1B><0x64><0x1B><0x65>
<i>Description:</i>	<p>After the sequence is set the daily balance report is printed out. In daily report are counted all documents since the last daily balance report was done. Filter of documents, which is relating to balance report, is printed out in report. In report is shown:</p> <ul style="list-style-type: none"> ➤ turnovers for individual tax levels in clasification - 20%, 10%, tax-free in 6 specificating information due to adding to 0 rate, Returnable Containers, Invoice Payment. ➤ Movements in clasification Receipt, Deposit, Withdrawal, Invalid document ➤ Negative items in clasification - Returning goods, Discount, Deducted Advance, Exchange vouchers and Returnable containers. ➤ Payments: Cash, Credit Card, Payment 3, Payment 4, Payment 5
<i>Note:</i>	<p>Overview daily report can be done more times per day, e.g. By shift-change or it can also be done only 1 time in 3 days. It is not required to be printed out. After the deadline is printed, the ACK confirmation is returned. In case of NAK error.</p>

<i>Function:</i>	Printing out monthly overview balance report >>>>
<i>Command:</i>	<ESC>m<ESC>e
<i>Format:</i>	<0x1B><0x6D><0x1B><0x65>
<i>Description:</i>	<p>After the sequence is set monthly balance report is printed out. It provides selling overview in actual month. Filter of documents, which are relating to report, is printed on report. In report are shown:</p> <ul style="list-style-type: none"> ➤ turnovers for individual tax levels in clasification - 20%, 10%, tax-free in 6 specificated information due to adding to 0 rate, Returnable Containers, Invoice Payment ➤ Movements in clasification Receipt, Deposit, Withdrawal, Invalid document ➤ Negative items in clasification - Returning goods, Discount, Deducted Advance, Exchange vouchers and Returnable containers. ➤ Payments: Cash, Credit Card, Payment 3, Payment 4, Payment 5.
<i>Note:</i>	<p>Overview monthly balance report can be done more times in one month. It provides overview of sell from actual month. After the deadline is printed, the ACK confirmation is returned. In case of NAK error.</p>

<i>Function:</i>	Printing out overview report according to dates >>>>
<i>Command:</i>	<ESC>XD"DATE1"<CR>"DATE2"<CR><ESC>e
<i>Format:</i>	<0x1B><0x58><0x44>YYYYMMDD<0x0D>YYYYMMDD<0x0D><0x1B><0x65>
<i>Description:</i>	<p>After the sequence is set overview report according to scale of wished dates (from DATE1 to DATE2) is printed out. Date is given in form YYYYMMDD, YYYY-year MM-month DD-day. Filter of documents, which are relating to report, is printed on report. In report are shown:</p> <ul style="list-style-type: none"> ➤ turnovers for individual tax levels in clasification - 20%, 10%, tax-free in 6 specificated information due to adding to 0 rate, Returnable Containers, Invoice Payment ➤ Movements in clasification Receipt, Deposit, Withdrawal, Invalid document ➤ Negative items in clasification - Returning goods, Discount, Deducted Advance, Exchange vouchers and Returnable containers. ➤ Payments: Cash, Credit Card, Payment 3, Payment 4, Payment 5.
<i>Note:</i>	<p>Year is stated in 4 places, month and day in 2 places. Example: 3. May 2019 – 20190503 After the deadline is printed, the ACK confirmation is returned. In case of NAK error.</p>

<i>Function:</i>	Printing out overview report according to number of document >>>>
<i>Command:</i>	<ESC>XS"DOCUMENT1"<CR>"DOCUMENT2"<CR><ESC>e
<i>Format:</i>	<0x1B><0x58><0x53>YYMMDDcccc<0x0D>YYMMDDcccc<0x0D><0x1B><0x65>
<i>Description:</i>	<p>After the sequence is set overview report according to scale of wished documents (from DOCUMENT1 to DOCUMENT2 including) is printed out. Document is given in form YYMMDDcccc.</p> <p>YY-year MM-month DD day cccc-serial number of document in particular month. Filter of documents, which are relating to report, is printed on report.</p> <p>In report are shown:</p> <ul style="list-style-type: none"> ➤ turnovers for individual tax levels in clasification - 20%, 10%, tax-free in 6 specificated information due to adding to 0 rate, Returnable Containers, Invoice Payment ➤ Movements in clasification Receipt, Deposit, Withdrawal, Invalid document ➤ Negative items in clasification - Returning goods, Discount, Deducted Advance, Exchange vouchers and Returnable containers. ➤ Payments: Cash, Credit Card, Payment 3, Payment 4, Payment 5.
<i>Note:</i>	<p>Year is stated in 2 places, month in 2 places, day in 2 places, number of document in 5 places.</p> <p>After the deadline is printed, the ACK confirmation is returned. In case of NAK error.</p>
<i>Example:</i>	<p>The document number is printed on the document below the date in dashes.</p> <p>Example: -- DOKLAD ----- 22051700020 ---</p> <p>The printed number is inserted as 22051700020</p>

Printout of report

Varos Technology - FT5000
Rudlovská cesta 123/53
97401 Banská Bystrica
Prevádzka:
FT5000 PLATCA DPH
Rudlovská cesta 123/53
97401 Banská Bystrica
IČO: 76543210 IČ DPH: SK1234567890
DIČ: 1234567890 KP: 88812345678900001
Číslo otvorenej uz.: 1 Poč.dokl:57
Od: 12.11.2020 13:08:50 00001
Do: 19.09.2020 20:34:38 00049
Datum:19.09.2020 20:37

INTERVALOVÁ SÚHRNÁ

-- OBRAT -----

[DPH]	[Základ]	[Daň]	[Obrat]
20%	237.52	47.58	285.10 EUR
10%	191.32	19.13	210.45 EUR
N.			66.50 EUR

N - Rozpis obratov oslobodených od DPH

-- Oslobodené od DPH 50.50 EUR

-- Prenesená povinnosť 15.00 EUR

-- Cestovné kancelárie 0.00 EUR

-- Použitý tovar 1.00 EUR

-- Umelecké diela 0.00 EUR

-- Zberateľské predmety 0.00 EUR

-- Zaokrúhlenie 0.00 EUR

Vratné obaly -7.54 EUR

Úhrada Fa 12000.00 EUR

----- Rekapitulácia obratu -----

428.84	66.71	12554.51 EUR
--------	-------	--------------

-- POHYBY ----- Počet --- Suma -----

< PARAGÓN > 6 2033.00 EUR

< VKLAD > 6

Hotovosť: 1000.00 EUR

< VÝBER > 3

Hotovosť: -400.00 EUR

< NEPLATNÝ > 0

-- ZÁPORNÉ POLOŽKY -----

Vrátenie tovaru:	1	-29.90 EUR
Zľava:	35	-27.05 EUR
Odpočítaná záloha:	1	-15.00 EUR
Výmenný poukaz:	1	-10.00 EUR
Vratné obaly:	17	-7.54 EUR

ZÁPORNÝ OBRAT: 55 -89.49 EUR

-- ROZPIS PLATIDIEL -----

Hotovosť:	13015.51 EUR
Platobná karta:	139.00 EUR

Function:	Printing bar-code in documents																																	
Command:	^bX"ČIAROVÝ KÓD"^k																																	
Format:	<0x5E><0x62>Xsssssssss<0x5E><0x6B>																																	
Description:	<p>The bar-code is print out on cash register document after the sequence was set. Command must be used in new line.</p> <p>X is type of bar code</p> <p>'0' UPC-A</p> <p>'1' UPC-E</p> <p>'2' JAN13 (EAN13)</p> <p>'3' JAN8 (EAN8)</p> <p>'4' CODE39</p> <p>'5' ITF</p> <p>'6' CODABAR</p> <p>sssssss is sequence, which should be print out as a bar code.</p> <p>The barcode command must be used in a separate line.</p> <p>If BARCODE exceeds the paper width, the printer will not print it.</p> <p>The string in the barcode must meet the requirements for the code type.</p> <p>It is necessary to verify the specific printer that supports barcodes.</p> <table><tr><td>Code type</td><td>Code length</td><td>Allowed characters in code</td></tr><tr><td>UPC-A</td><td>11, 12</td><td>0~9</td></tr><tr><td>UPC-E</td><td>6, 7, 8, 11, 12</td><td>0~9, d1 = '0' ak k = 7,8,11,12</td></tr><tr><td>EAN13</td><td>12, 13</td><td>0~9</td></tr><tr><td>EAN8</td><td>7, 8</td><td>0~9</td></tr><tr><td>CODE39</td><td>1~255</td><td>0~9, A~Z, SP, \$, %, *, +, -, ., /</td></tr><tr><td>ITF</td><td>2~255 párne</td><td>0~9</td></tr><tr><td>CODABAR</td><td>1~255</td><td>0~9, A~D, a~d,\$, +, -, ., /, :</td></tr><tr><td>CODE93</td><td>1~255</td><td>0x00~0x7F</td></tr><tr><td>CODE128</td><td>2~255</td><td>0x00~0x7F [d1 = { A d2 C]</td></tr><tr><td>EAN128</td><td>11,12</td><td>0~9</td></tr></table> <p>Optional variable in PD, UF, VY, VK, OD.</p>	Code type	Code length	Allowed characters in code	UPC-A	11, 12	0~9	UPC-E	6, 7, 8, 11, 12	0~9, d1 = '0' ak k = 7,8,11,12	EAN13	12, 13	0~9	EAN8	7, 8	0~9	CODE39	1~255	0~9, A~Z, SP, \$, %, *, +, -, ., /	ITF	2~255 párne	0~9	CODABAR	1~255	0~9, A~D, a~d,\$, +, -, ., /, :	CODE93	1~255	0x00~0x7F	CODE128	2~255	0x00~0x7F [d1 = { A d2 C]	EAN128	11,12	0~9
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CODE128	2~255	0x00~0x7F [d1 = { A d2 C]																																
EAN128	11,12	0~9																																
Note:	<p>Barcode printing can be used in PD, UF, VY, VK, OD.</p> <p>The variable must be used in a separate line.</p> <p>If BARCODE exceeds the paper width, the printer will not print it.</p> <p>The barcode string must meet the requirements for the code type.</p>																																	

Example:

```

^tExample scenario printing of bar code
VAROS2019 – required bar code CODE39
^Dname of item^k
^Q3^k ^M ks^k ^J1.50^k <ESC>1NNN 10.20 EUR
^b4VAROS2019^k
<ESC>k 10.20 EUR
<ESC>P1 10.20 EUR
<ESC>e

```

8. Sequences used for auxiliary functions

>>>>

<i>Function:</i>	Create an info file >>>>																																		
<i>Command:</i>	<ESC>I<ESC>e																																		
<i>Format:</i>	<0x1B><0x49><0x1B><0x65>																																		
<i>Function:</i>	<p>After sending the given sequence, the eFT4000 or FT5000 sends information data about the document status, UID - unique document identifier to the computer which is necessary to be sent, e.g. when goods are returned, unique document number, turnover, VAT...</p> <p>UID - the unique document identifier has the length of 34 characters when the cash register is online.</p> <p>OKP - entrepreneur's verification code has 44 characters.</p> <p>A unique document number is required to print a copy of the document (<ESC> C) or to read out the document into the PC (<ESC>q)</p> <p>This data contains 16 lines ended by CRLF and the ETX character is sent at the end.</p>																																		
<i>Sample:</i>	<table> <tr> <td>1</td><td>Receipt status 1 – ON-line, OFF-line receipt was printed in order, in case of a receipt error, an error message according to ERROR MESSAGE is returned.</td></tr> <tr> <td>xxx</td><td> UID - Unique document identifier where xxx can take: UID e.g.: O-7DBCDA8A56EE426DBCDA8A56EE426D1A or when OFF line document = OFFLINE or at wrong document = NONE </td></tr> <tr> <td>yyy</td><td> OKP - Entrepreneur's Verification Code whereby yyy can acquire: OKP e.g.: C44B3977-0E415CC6-EE663AA1-776C973A-A143B660 or with a faulty GPS document = NONE </td></tr> <tr> <td>20091000023</td><td>Unique cash register document number (in dashes)</td></tr> <tr> <td>00023</td><td>Document serial number within a month</td></tr> <tr> <td>120.00</td><td>turnover per a document at the basic VAT rate</td></tr> <tr> <td>1100.00</td><td>turnover per a document at a reduced VAT rate</td></tr> <tr> <td>0.00</td><td>turnover per a document at the exemption from VAT rate</td></tr> <tr> <td>15.00</td><td>turnover per a document for returnable containers</td></tr> <tr> <td>0.00</td><td>turnover per document for the invoice payment</td></tr> <tr> <td>20.00</td><td>VAT per a document at the basic VAT rate</td></tr> <tr> <td>100.00</td><td>VAT per a document at a reduced VAT rate</td></tr> <tr> <td>0.00</td><td>Rounding to plus</td></tr> <tr> <td>0.00</td><td>Rounding to minus</td></tr> <tr> <td>03.12.2018</td><td>Date from the fiscal printer timer</td></tr> <tr> <td>16:50</td><td>Time from the fiscal printer timer</td></tr> <tr> <td>ETX</td><td>Data termination</td></tr> </table>	1	Receipt status 1 – ON-line, OFF-line receipt was printed in order, in case of a receipt error, an error message according to ERROR MESSAGE is returned.	xxx	UID - Unique document identifier where xxx can take: UID e.g.: O-7DBCDA8A56EE426DBCDA8A56EE426D1A or when OFF line document = OFFLINE or at wrong document = NONE	yyy	OKP - Entrepreneur's Verification Code whereby yyy can acquire: OKP e.g.: C44B3977-0E415CC6-EE663AA1-776C973A-A143B660 or with a faulty GPS document = NONE	20091000023	Unique cash register document number (in dashes)	00023	Document serial number within a month	120.00	turnover per a document at the basic VAT rate	1100.00	turnover per a document at a reduced VAT rate	0.00	turnover per a document at the exemption from VAT rate	15.00	turnover per a document for returnable containers	0.00	turnover per document for the invoice payment	20.00	VAT per a document at the basic VAT rate	100.00	VAT per a document at a reduced VAT rate	0.00	Rounding to plus	0.00	Rounding to minus	03.12.2018	Date from the fiscal printer timer	16:50	Time from the fiscal printer timer	ETX	Data termination
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16:50	Time from the fiscal printer timer																																		
ETX	Data termination																																		
<i>Description:</i>	<p>The file contains information only about the last document status !!! (We will complete the table of codes with possible ORP states later).</p> <p>Command <ESC>I cannot be used in the body of the receipt because the document in progress will be cancelled and a statement with NEPLATNY DOKLAD (INVALID DOCUMENT) is printed.</p>																																		

ERROR MESSAGE - Error Code Description

Error code	Note: Errors number -2 to -132 are return errors directly from the eKasa server.
1	ON-line or OFF-line cash receipt.
-2	Bad input values.
-8	This version of the integration interface is no longer supported.
-10	Error signing data message.
-12	Incorrect certificate format.
-13	The certificate used is not valid.
-100	Invalid PKP value.
-101	Tax identification number in the data message does not match the tax identification number in the certificate.
-102	The ORP code in the data message does not match the ORP code in the certificate.
-103	The date and time of issue of the document is later than the date and time of processing.
-104	The date and time the document was created is later than the processing date and time.
-105	The date and time the document was created is earlier than the processing date and time.
-106	The date and time the document was issued is earlier than the date and time the system was started.
-107	The date and time the document was created is earlier than the date and time system was started.
-108	The date and time the location data was created is later than the processing date and time.
-109	The date and time the location data was created is earlier than the processing date and time.
-110	The date and time the location data was created is earlier than the system start date and time.
-111	Invalid OKP value.
-112	The invoice number must be filled in for the document type: Invoice payment.
-113	The VAT breakdown may not be filled in for the document type: Invoice payment, Deposit, Withdrawal.
-114	Document type: Invoice payment, Deposit, Withdrawal must not contain items.
-115	Invoice number must not be filled in for the document type: Cash receipt, Invalid receipt, Deposit, Withdrawal.
-116	Document type: Cash receipt, Invalid receipt must contain items.
-117	For item type: Returned, Correction the Reference number of the document to which the return, the correction relates must be filled in.
-118	For item type: Positive, Returned packaging, Discount, Deducted deposit, Voucher exchange must not be filled in Document reference number.
-119	The VAT breakdown must be filled in for the type of document: Cash receipt, Invalid receipt.
-120	The amount of the base rate tax and the Base of basic tax rate must be filled both or none.
-121	The amount of the reduced rate and the Base of the reduced tax rate must be filled in both or none.
-122	Buyer's ID and Buyer's ID Type must be filled in both or none.
-123	Buyer's ID and Buyer's ID Type must not be filled in for document type: Invalid document, Deposit, Withdrawal.
-124	The receipt number is mandatory in case of registration of the receipt.
-125	The receipt number can only be filled in if the receipt is registered.
-126	The receipt cannot be registered for the document type: Invalid document, Deposit, Withdrawal.
-127	Item Type: A positive one must not have a negative price.

-128	Item Type: Returned packaging, Returned, Discount, Deducted deposit, Voucher exchange must not have a positive price.
-129	Seller's ID and Seller's ID Type must be filled in both or none.
-130	For tax assignment: 20, 10 Verbal information must not be filled in.
-131	For item type: Positive, Returned packaging, Returned, Discount, Deducted advance must not be filled in. Number of single-purpose voucher.
-132	Incorrect time zone
-499	Refusal for security reasons, it is necessary to contact support FS
-500	The final amount does not fit. (after <ESC>k)
-501	Incorrect value in quantity
-502	Incorrect value in unit price
-503	Incorrect price sign in line
-504	Unauthorized document in TEST mode
-505	Incorrect cancellation document type. (A - return, B - discount, C - deducted advance, D - exchange voucher)
-507	Wsdli schema validation error
-508	Duplicate item
-509	Customer listed more than once
-510	Printer error
-511	Exceeded 2000 characters in the footer
-512	Voucher exchange must be filled in Single-purpose voucher number.
-513	For a document containing an Exchange Voucher, the amount of the document must be 0 EUR.
-514	When using a deposit for goods, the sum in the tax level must not be negative
-550	<ESC> k is missing in the receipt Incomplete line
-551	Incomplete line
-552	Exceeded number of allowed free print characters
-553	Unauthorized control characters
-554	SDS error
-555	Error in system time
-556	Interrupted by the user after the notification of a leap in the date
-557	Unauthorized SwId
-999	Unknown error
-1001	Initialization sequence not found
-1002	ESC F sequence is not terminated by ETX character
-1003	Caret sequence not completed ^k
-1004	Failed to register windows message
-1005	Error when sending email
-1006	Error when reading printer status
-1007	The printer is not connected, or the setup error
-1008	Printer is not responding
-1009	Failed to load printer version
-1010	The serial port is busy or does not exist
-1011	Exception when sending data to serial port
-1012	Authentication data not imported

-1013	Failed to create a file for saving last XML message
-1014	Failed to create a file for saving XML
-1015	Error when saving receipt to CHDU
-1016	Error when loading certificate
-1017	Error when loading identification data
-1018	eKASA returned the response that cannot be processed
-1019	eKASA returned the response that cannot be processed
-1020	eKASA returned the response that cannot be processed
-1100	Attributes load stream not good
-1101	Other print manager is running in the background - PPEKK
-1102	Required libraries are missing
-1103	ERROR when exiting the programme
-1104	Unable to access the necessary files
-1105	Unable to access info.full
-1106	Unable to access info.txt
-1107	Unable to access debug.txt
-1108	Unable to access Fm_sts.bin
-1109	Unable to access errorLog.txt
-1110	The port for the TCP server to download receipts is busy
-1112	The required attribute in XML is not entered
-1113	Missing ORP or DIČ (tax identification number)
-1114	Missing nod when creating location envelope
-1115	Nod points were not found when creating envelope
-1116	Failed to retrieve XML data to create envelope
-1117	Bad XML format - missing nods or attributes
-1118	XML parsing error
-1119	The new DIČ does not fit with the originally activated DIČ (tax identification number)
-1120	Failed to print copy of the receipt
-1121	rsa_sing returned an undefined error -1 from the FS server when signing the envelope
-1122	Missing necessary nod
-1123	Interrupted import of authentication data
-1124	CHDU contains defective off-line receipt, necessary service intervention
-1125	Some certificate was loaded but it failed to instanciate the object
-1126	CHDU is full
-1227	The receipt in the CHDU has a higher date than the computer date CHDU_INVALID_DATE
-1228	Error on PC needed locale
-1229	The receipt in the CHDU has a higher date than the computer date CHDU_PROCESS_DATE
-1230	The receipt in the CHDU has a higher date than the computer date INCORRECT_ERROR_FIX_RECEIPT
-1231	The discount is higher than the price of the goods within the same tax
-1232	Error receipt cannot be corrected by OFF-line receipt
-1233	Currency rounding error Cash, allowed value exceeded

<i>Function:</i>	Reading out the identification eKasa and a firmware version >>>>
<i>Command:</i>	<ESC>i
<i>Format:</i>	<0x1B><0x69>
<i>Description:</i>	<p>After sending the given sequence, the eFT4000 or FT5000 return the identification information - ORP name and firmware version /2Byte/.</p> <p>If after the command <ESC>i is sent, the fiscal printer will return the information string to FM500016, it means that the module is FT5000 type and 1.6 firmware version.</p> <p>If after the command <ESC>i is sent, the fiscal printer will return the information string to FM400020, it means that the module is FT4000 type and 2.0 firmware version.</p>
<i>Note:</i>	The fiscal printer communicates with any terminal set to the communication parameters of a port.

<i>Function:</i>	Identification of a LOG file to PC (only at FT5000) >>>>
<i>Command:</i>	<ESC>g<ESC>e
<i>Format:</i>	<0x1B><0x67><0x1B><0x65>
<i>Description:</i>	<p>Reading out of LOG file (protocol of changes) to PC.</p> <p>This data contains lines ended with CRLF and the ETX character sent at the end.</p>
<i>Note:</i>	Structure of LOG file.

LOG file FT5000

[eKasa] FM500010
[Platnosť certifikátu]
29.01.2021 15:07:01
[Výnimka] NIE
[Plátca DPH] ÁNO
[Hladiny] 20%, 10%, 0%, 19%, 9%
[Testovací mód] NIE
[Ekasa prostredie] Integračné
[Typ CHDU] CHDU5001 1.3.0
[Výrobné číslo]
2D19AA91-56463933-95BF4E31-545424A8
[Kapacita CHDU] zostáva 96%
[Počet neodoslaných dokladov] 0
[ERROR doklad] Áno
[SwId] VAROS TECHNOLOGY FT5000 1.5.0
9C4BF4E6328F12BFA8DCE829648CDE2E596335AA
[RTC čas]
Local time: St 2020-12-30 12:14:12 CET
RTC1: 2020-12-30 12:14:12
RTC in local TZ: no
System clock synchronized: no
systemd-timesyncd.service active: no

[Komunikácia WEB rozhranie]
<http://192.168.1.36>
[Komunikácia eFT5000]
* RS232/USB: 115200
TCP Socket: 192.168.1.36:20543
[Povolená IP adresa PC]
192.168.1.0/24
[RDM - SID] 24a89d1f8b6d4f8d

[Inicializačný reťazec]

[Hlavička dokladu]
Varos Technology - FT5000
Rudlovská cesta 123/53
97401 Banská Bystrica
Prevádzka:
FT5000 PLATCA DPH
Rudlovská cesta 123/53
97401 Banská Bystrica
IČO: 76543210 IČ DPH: SK1234567890
DIČ: 1234567890 KP: 88812345678900001

[Dopĺňujúca hlavička]

[Pätička dokladu]

^Ei

Manuály v elektronickej podobe sú
dostupné <http://www.varos.sk/manualy.php>

certificate expiration
exemption from the transmission of data
VAT payer sentinel
set VAT rates
sentinel test mode
CHDÚ mode Production/Integration
CHDÚ model and version

CHDÚ serial number
CHDÚ spare capacity
the number of OFF-line receipts
sentinel of an invalid receipt in CHDÚ

eKasa software identifier

eKasa system time
time in the backup timer
local time zone sentinel
timer synchronization sentinel with NTP server
active synchronization sentinel

printer IP address

* - active communication interface FT5000
setting up serial communication
IP communication setup
enabled IP addresses of devices from which eKasa
receives commands
unique identifier FT5000

control string to be sent before each receipt is sent
except the other receipt

eKasa header retrieved from Identification Data

the additional document header is sent in each
receipt except the other one.

the receipt footer is sent in each receipt except the
other one.

reference to electronic manuals of eKasa

<i>Function:</i>	Printing out the LOG file (only at FT5000) >>>>
<i>Command:</i>	<ESC>L<ESC>e
<i>Format:</i>	<0x1B><0x4C><0x1B><0x65>
<i>Description:</i>	Printing LOG file (protocol of changes). After the deadline is printed, the ACK confirmation is returned. In case of NAK error.

<i>Function:</i>	Opening the cash drawer >>>>
<i>Command:</i>	<ESC>o<ESC>e
<i>Format:</i>	<0x1B><0x6F><0x1B><0x65>
<i>Description:</i>	For proper operation of the function, the correct sequence setting for the given printer type is required. For eFT4000 – setting in Print Manager For FT5000 – setting through internet interface, in configuration
<i>Note:</i>	For opening drawer use in body of any document: ^Z or sequence according to type of opening cash drawer. PIN 4-2: 0x1B,0x70,0x01,0x20,0x80 PIN 4-5: 0x1B,0x70,0x00,0x20,0x80

<i>Function:</i>	Sending a control sequence to the printer. >>>>
<i>Command:</i>	<ESC>F „character string“ <ESC>e
<i>Format:</i>	<0x1B><0x46>the HEX string of characters separated by a comma<0x1B> <0x65>
<i>Description:</i>	The command is used to send authorized control sequences to the printer. E.g. switch the print head to the receipt description. The sequence is used separately.
<i>Note:</i>	The sequence is used separately, it cannot be used in the body of receipts. Example of opening PIN 4-2 drawer: <0x1B><0x46>0x1B,0x70,0x01,0x20,0x80<0x1B><0x65>

<i>Function:</i>	Sending OFF-line receipts to FS server . >>>>
<i>Command:</i>	<ESC>S<ESC>e
<i>Format:</i>	<0x1B><0x53><0x1B><0x65>
<i>Description:</i>	The command is used to manually sent OFF-line receipts to the financial administration server.
<i>Note:</i>	OFF-line receipts are sent automatically to the financial administration server if it is accessible. - when starting the printer - when issuing a new receipt that can be registered on the FS server - when you press the CONFIRM key on the printer keyboard.

9. Status Sequences

>>>>

Function:	ON-line printer status	>>>>
Command:	<ESC>DC1	
Format:	<0x1B><0x11>	
Description:	The sequence is used to determine the printer's current status.	
Sample:	<div> <div> <p>FS+1.Byte+2.Byte+(0xAA)</p> <p><u>1.Byte</u> (The largest bit of the byte is bit 8)</p> <p>8. 0</p> <p>7. 0</p> <p>6. 0</p> <p>5. if printer is in BUSY status, bit =1</p> <p>4. 0</p> <p>3. 0</p> <p>2. 0</p> <p>1. 0</p> </div> <div> <p>Poznámka:</p> <p>-8th bit is the highest bit from accepted byte.</p> <p>-FT if is in active status, it is able to process given query also in case, when BUSY status is set on communication pin DTR (CTS).</p> </div> </div> <div> <p><u>2.Byte</u></p> <p>8. 0</p> <p>7. 0</p> <p>6. 0</p> <p>5. 0</p> <p>4. 0</p> <p>3. 0</p> <p>2. 0</p> <p>1. 0 (in case of status returned via print manager there is value 1 on that bit)</p> </div>	
Example:	<p>Message format:</p> <p>Sent string: <ESC>+<DC1></p> <p>FT returns 5 byt chain:</p> <p>The printer is ready F+S+<00>+<00>+<AA></p> <p>The printer is not ready F+S+<01>+<00>+<AA></p> <p><u>Print manager</u></p> <p>If there is a sequence in the input file <ESC>DC1, the info.txt file is created and it contains number 9999 in line 1.</p> <p>In line 2 there is a number representing the online status described above. The number range is <0-65535> t[this value needs to be converted to 2 byte integer number that represents ON LINE status.</p> <p>If printer is OK, the return number in line 2 is equal to 1.</p> <p>If printer is in BUSY mode, the return number in 2 line is 4097.</p>	

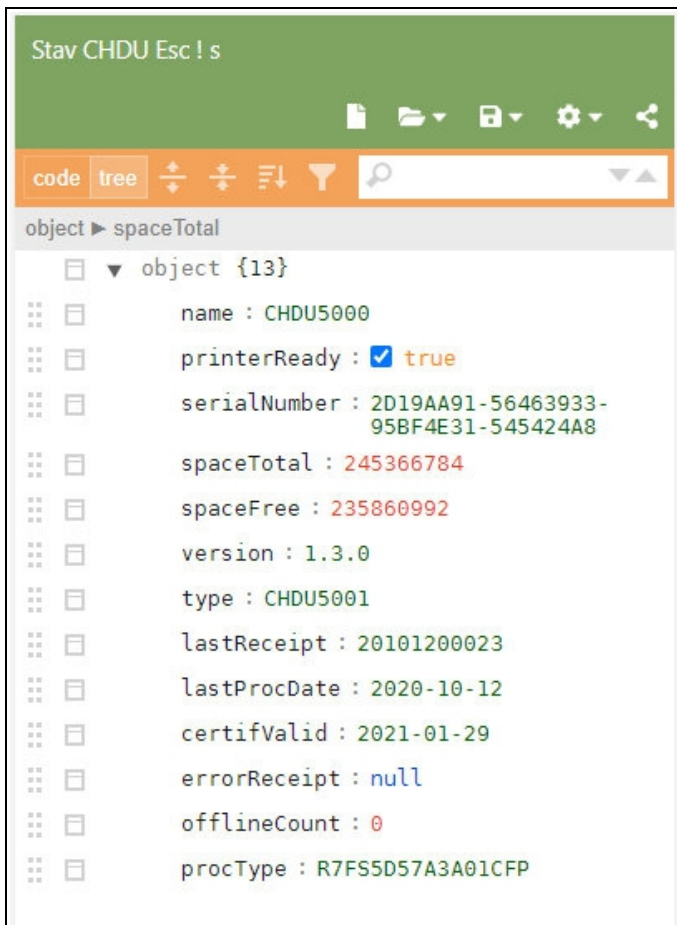
<i>Function:</i>	ON-line status of document in progress >>>>
<i>Command:</i>	<ESC>DC2
<i>Format:</i>	<0x1B><0x12>
<i>Description:</i>	The sequence is used to determine the status of document in progress of FT5000.
<i>Sample:</i>	
<p>F1+1.Byte+2.Byte+(0xAA)</p> <p><u>1.Byte</u> (The largest bit of the byte is bit 8)</p> <p>8. 0</p> <p>7. 0</p> <p>6. 0</p> <p>5. 0</p> <p>4. 0</p> <p>3. 0</p> <p>2. 0</p> <p>1. 0</p> <p><u>2.Byte</u></p> <p>8. 0</p> <p>7. 0</p> <p>6. 0</p> <p>5. 0</p> <p>4. 0</p> <p>3. 0</p> <p>2. 0</p> <p>1. 0 if the document is in progress, bit =1</p> <div data-bbox="906 416 1235 714" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p>Poznámka:</p> <p>-8th bit is the highest bit from accepted byte.</p> <p>-FT if is in active status, it is able to process given query also in case, when BUSY status is set on communication pin DTR (CTS).</p> </div>	
<i>Example:</i>	<p>Message format:</p> <p>Sent string: <ESC>+<DC2></p> <p>FT returns 5 byt chain:</p> <p>The printer is waiting for document F1<0x00><0x00><0xAA></p> <p>The document is in progress F1<0x00><0x01><0xAA></p> <p>Status DC2 supports printer FT5000 only at direct communication.</p> <p>DC2 can not be used when there is communication via print manager.</p>

<i>Function:</i>	Status information obtained from the fiscal printer >>>> <ESC>!<mandatory parameter><ESC>e
<i>Start command:</i>	<ESC>!
<i>Mandatory parameter:</i>	<h> <0x68> reading out head <D> <0x44> eading out code of printer <d> <0x64> reading out tax levels (7 levels - VAT1, VAT2, VATFREE, VAT1OLD, VAT2OLD, VAT3, VAT3OLD) <v> <0x76> reading out of device version (FM400010, FM500010) <T> <0x54> reading out of testing mode attribute (test mode = 1, stable mode = 0) <c> <0x63> reading out of validity of certificate (YYYYMMDD) <O> <0x4F> eading out number of OFF-LINE documents (00001) <s> <0x73> retrieval of SDS status information JSON format <p> <0x70> retrieval of printer status information JSON format <I> <0x49> retrieving information about the recent receipt JSON format <r> <0x72> retrieving information about the receipt JSON format <n> <0x6e> retrieving information about the receipt JSON format <R> <0x52> retrieving the turnover report JSON format
<i>Command end:</i>	<ESC>e
<i>Format:</i>	<0x1B><0x21><povinný parameter><0x1B><0x65>
<i>Description:</i>	<p>The function returns the required information from the printer. The type of information required is selected based on the parameter. <h,D,d,v,T,c,O,p,s,I,r,R></p> <p>The first byte of the response contains ACK or NAK information. ACK will return if <ESC>! is followed by a supported mandatory parameter.. The next 2 characters contain the information about status information length, the rest of the packet contains the required information. NAK is returned if an unsupported parameter is used. In the case of communication via the print manager, only the required information is returned which is stored in the fm_sts.bin file.</p>
<i>Example answer:</i>	ACK <lenght_data_H><lenght_data_L><received data of a given length> NAK – unsupported query

CLICK to open the web application [JSON browser](#)

CLICK to open the retrieval of the [Status CHDU5000 in JSON format](#)

View retrieved status information of CHDÚ <ESC>!s<ESC>e in JSON browser.



the name of JSON file - the CHDÚ name

printerReady - printer readiness

serialNumber - CHDÚ serial number

spaceTotal - total CHDÚ memory size

spaceFree - free CHDÚ memory size

version - CHDÚ version

type - CHDÚ type

lastReceipt - last receipt number

lastProcDate - last receipt date

certifValid - certificate validity

errorReceipt - number of invalid receipts

offlineCount - number of unsent receipts

procType - processor type in CHDÚ

CLICK to open the retrieval of the [Printer status in JSON format](#)

View retrieved status information of the printer <ESC>!p<ESC>e in JSON browser.



The sequence returns the instantaneous state of the printer.

Variables can get value

true - the variable is in active status

false - variable did not occur

JSON file name - real printer status

printerBusy - the printer is busy

readTimeout status retrieval error

drawerPin - drawer switch status

online - Online printer status

waitForRec waiting for the correction

paperFeed - paper shift

coverOpen open printer cover

paperFeed paper shift

paperEnd the end of paper

error printer error

recoverable - removable error

autocutter cutter error

unrecoverable - nonremovable error

autorecoverable - removable error

paperNearEnd - near end of the paper

paperError error

When communicating with the print manager, the requested information is returned to **Fm_sts.bin** file.

CLICK to open retrieved Information about the last receipt [INFO in JSON format](#)

View the retrieved status of the receipt <ESC>!I<ESC>e in JSON browser.

```

Info o poslednom doklade <ESC>!I<ESC>e

code tree [dividers] [filters] [search]

Select a node...

object {11}
  billMonthNumber : 36
  billNumber : 22011000036
  billType : PD
  errCode : 1
  billAmount : 5061.90
  invoiceAmount : 0
  okp : 7983cbe0-bfb1c739-e2a3717e-fa789d12-ca3770d2
  round : -0.02
  VO : 630.00
  uid : 0-A372550781974D78B2550781972-TEST
  vats [3]
    0 {4}
      amount : 1738.00
      tax : 289.67
      vatBase : 1448.33
      vatRate : 20
    1 {4}
      amount : 869.00
      tax : 79.00
      vatBase : 790.00
      vatRate : 10
    2 {4}
      amount : 2454.90
      tax : 0.00
      vatBase : 0.00
      vatRate : 0
  
```

The sequence returns information about the last document. Only the values of those variables are displayed whose turnover is different from zero.

- document serial number within a month
- unique document number YYMMDDcccccc
- document type PD,UF,VY,VK,PPD,PUF,GPS *1
- document processing error number *2
- the total price of the receipt after rounding
- the amount of invoice payment after rounding
- entrepreneur verification code *3

- rounding the currency Cash
- total amount of returnable packaging
- unique document identifier *4

Turnovers in individual tax levels

- turnover in the VAT level 1
- tax in the VAT level 1
- base in the VAT level 1
- rate in the VAT level 1
- turnover in the VAT level 2
- tax in the VAT level 2
- base in the VAT level 2
- rate in the VAT level 2
- turnover without VAT + Packaging + Rounding
- tax in the VAT level 3
- base in the level 3
- rate in the level 3

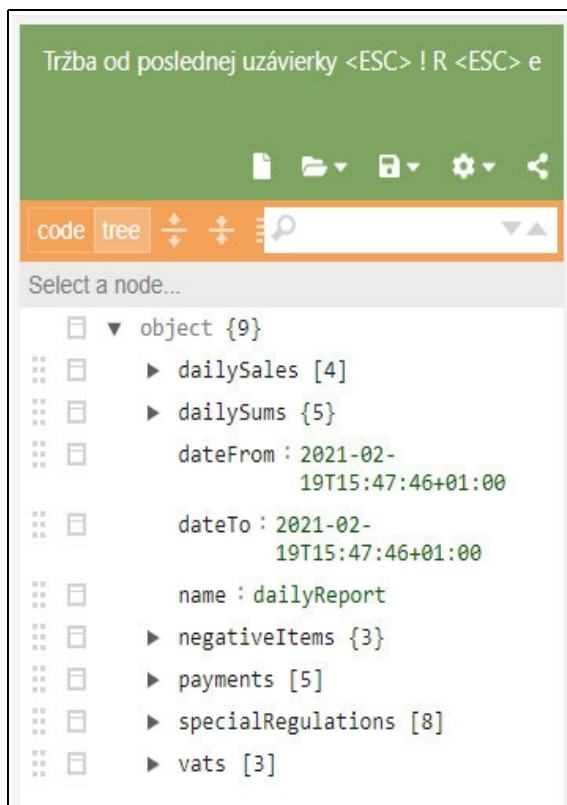
NOTES:

- *1 Variable **billType** indicates document PD cash receipt, UF - invoice payment, VY - withdrawal, VK - deposit, PPD - cash register document, PUF - invoice payment receipt, GPS - the location of eKasa. OD - other document
- *2 Variable **errCode** returns an error code when processing the document, see. [ERROR_MESSAGE](#)
- *3 Variable **okp** returns:
 - **OKP** verification code of the entrepreneur for documents PD, UF, VY, VK, PPD, PUF
 - text **NONE** for GPS position, Other document, or invalid document.
- *4 Variable **uid** returns:
 - **UID** unique document identifier for ON-LINE documents,
 - text **OFFLINE** for OFF-LINE documents,
 - text **GPS** with GPS position,
 - text **NONE** for the Other document or invalid document.

When communicating with the print manager, the requested information is returned to **Fm_sts.binfile**.

CLICK to open retrieved Info - Daily Sales Report **TURNOVERS in JSON format**

Display of the retrieved takings status <ESC>!R<ESC>e in JSON browser.



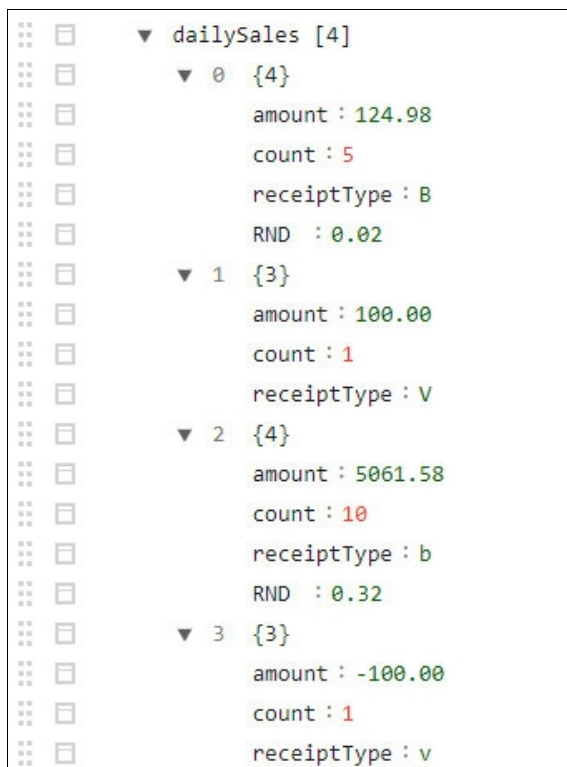
Sequence returns the turnover values since last closing so called "Open closing turnovers".

Only the values of those variables whose turnover is different from zero are displayed.

1. Cumulated turnover in individual types of documents
2. Cumulated data since the last closing
 - date of the first document
 - date of the last document
 - JSON file name - daily overview
3. Turnovers for each type of negative items
4. Turnovers in individual currencies
5. Turnovers in the zero VAT rate by individual types
6. Turnovers in individual VAT rates

1. Cumulated turnover in individual types of documents

Only turnover that varies that is different from zero is displayed.



- cumulated turnover of payment of invoices without rounding off RND
- the number of invoice payments
- document type **B** - invoice payment
- the total value of cash rounding in invoices
- cumulated turnover of deposits
- number of deposits
- document type **V** - deposit
- cumulated turnover of cash receipts without RND
- number of documents
- document type **b** - cash receipt
- total value of cash rounding in documents
- cumulated turnover of withdrawals
- the number of withdrawals
- document type **v** withdrawal

2. Cumulated data since the last closing

```
dailySums {5}
  billAmount : 5061.90
  dayAmount : 5186.90
  invoiceAmount : 125.00
  tax : 368.67
  vatBase : 2238.33
```

- turnover from cash receipts with the rounding of cash
- total revenue
- revenue from the payment of invoices with the rounding of cash
- total VAT /VAT1+VAT2/
- total base for VAT /VAT1+VAT2/

3. Turnovers in each type of negative item

```
negativeItems {3}
  amount : -738.10
  count : 33
  items [5]
    0 {4}
      amount : -5.10
      count : 8
      doc : Odpočitana zaloha
      type : OZ
    1 {4}
      amount : -70.00
      count : 1
      doc : Vratne obaly
      type : VO
    2 {4}
      amount : -510.00
      count : 8
      doc : Vratenie tovaru
      type : V
    3 {4}
      amount : -102.00
      count : 8
      doc : Vymenny poukaz
      type : VP
    4 {4}
      amount : -51.00
      count : 8
      doc : Zlava
      type : Z
```

Only turnover that is different from zero is displayed.

- total negative turnover

- number of negative items

Turnover in individual negative items

- negative turnover in the deducted advance

- number of items of deducted advances

- name of the negative item

- negative item type **OZ** - deducted advance

- negative turnover of returnable packaging

- number of returnable packaging items

- name of the negative item

- negative item type **VO** – returnable packaging

- negative turnover when returned goods

- number of return items with returned goods

- name of the negative item

- negative item type **V** - return of goods

- negative turnover exchange voucher

- number of exchange voucher items

- name of the negative item

- negative item type **VP** - exchange voucher

- negative turnover discount granted

- number of items of discounts granted

- name of the negative item

- negative item type **Z** - discount granted

4. Turnovers in individual currencies

Only currency in which turnover is different from zero are displayed. Printers support 8 types of currency. Currency number 1 is defined for Cash.

▼ payments [5]
▼ 0 {2}
amount : 4061.90
type : 1
▼ 1 {2}
amount : 525.00
type : 2
▼ 2 {2}
amount : 300.00
type : 3
▼ 3 {2}
amount : 200.00
type : 4
▼ 4 {2}
amount : 100.00
type : 5

Turnover in currency 1

- total turnover in the currency

- type of currency – Cash

Turnover in currency 2

- total turnover in the currency

- type of currency – Payment card

Turnover in currency 3

- total turnover in the currency

- type of currency – Currency 3

Turnover in currency 4

- total turnover in the currency

- type of currency – Currency 3

Turnover in currency 5

- total turnover in the currency

- type of currency – Currency 5

5. Turnovers in the zero VAT rate by individual types

Only types in which the turnover is different from zero are displayed.

▼ specialRegulations [8]
▼ 0 {2}
amount : 260.70
type : CK
▼ 1 {2}
amount : 86.90
type : OOD
▼ 2 {2}
amount : 173.80
type : PDP
▼ 3 {2}
amount : 347.60
type : PT
▼ 4 {2}
amount : 434.50
type : UD
▼ 5 {2}
amount : 521.40
type : ZP
▼ 6 {2}
amount : 0.34
type : RND
▼ 7 {2}
amount : 630.00
type : VO

Total turnovers for goods and services not subject to VAT

- amount of turnover

- type **CK** – travel agencies

- amount of turnover

- type **OOD** – tax free

- amount of turnover

- type **PDP** – transfer of tax liability

- amount of turnover

- type **PT** – used goods

- amount of turnover

- type **UD** – works of art

- amount of turnover

- type **ZPS** – collectors' items and antiques

- the amount of rounding of the currency Cash

- type **RND** – total rounding of Cash, the amount of rounding from receipts and invoices

- amount of turnover

- type **VO** – returnable packaging

6. Turnover at individual VAT rates

Only types in which the turnover is different from zero are displayed.

▼ vats [3]	
▼ 0 {4}	
amount : 2580.24	- turnover
tax : 0	- tax
vatBase : 0.00	- tax base
vatRate : 0	- tax rate 0%
▼ 1 {4}	
amount : 869.00	- turnover
tax : 79.00	- tax
vatBase : 790.00	- tax base
vatRate : 10	- tax rate 10%
▼ 2 {4}	
amount : 1738.00	- turnover
tax : 289.67	- tax
vatBase : 1448.33	- tax base
vatRate : 20	- tax rate 20%

Retrieval of document information **<ESC>!r YYMMDDcccc <ESC>e**

>>>>

Retrieval of document information **<ESC>!n receiptId <ESC>e**

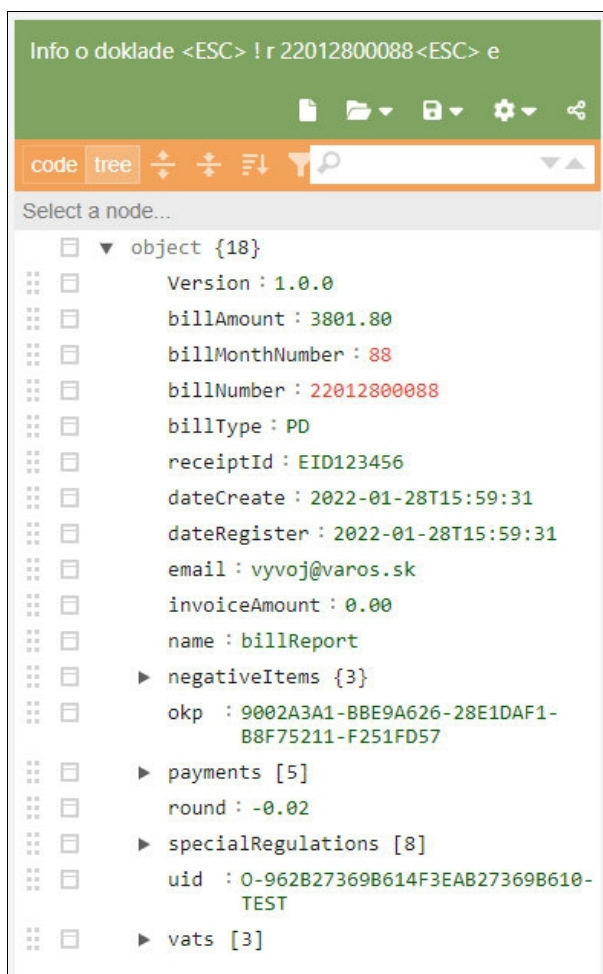
CLICK to open the retrieved Document Information [TURNS in JSON format](#)

The **<ESC>!r** and **<ESC>!n** commands return the same information about the selected document.

The **<ESC>!r** command searches for information about the document by the number printed on the document. YYMMDDcccc – document number assigned by eKasa client programme.

The **<ESC>!n** command searches for information about the document according to the receiptId identifier which is sent in the footer of the document by the sales application. If multiple receipts contain the same receiptId, the command returns information about the most recent receipt.

Document status display **<ESC>!rYYMMDDcccc<ESC>e or **<ESC>!nreceiptID<ESC>e** in JSON browser.**



The sequence returns detailed information about the document. Information can only be obtained on documents that are sent to the financial administration server – they have an assigned document number. Only the values of those variables whose turnover is different from zero are displayed.

- JSON format version
- the total price of the cash receipt with rounding
- receipt serial number within a month
- unique document number YYMMDDcccc
- document type PD,UF,VY,VK,PPD,PUF *1
- document identifier from the parent application *4
- date of the creation of the document
- date of registration of the receipt on the FS server
- buyer's email if the document is sent electronically
- total invoice payment price with rounding
- name of the JSON file – overview of the receipt
- 1. [Turnovers for each type of negative items](#)
- entrepreneur's verification code *2
- 2. [Turnover in individual currencies](#)
- value of rounding of the currency Cash
- 3. [Turnovers in the zero VAT rate by individual types](#)
- unique identifier of the document *3
- 4. [Turnovers at individual VAT rates](#)

NOTES:

- *1 Variable **billType** indicates document type **PD** – cash register document, **UF** – the payment of invoice, **VY** – withdrawal, **VK** – deposit, **PPD** – cash receipt slip, **PUF** – invoice payment receipt
- *2 Variable **okp** returns **OKP** – verification code of the entrepreneur for documents
- *3 Variable **uid** returns :
 - **UID** unique document identifier for ON-LINE documents
 - text **OFFLINE** for OFFLINE documents
- *4 If the document does not contain a receiptId variable, the unique billNumber is returned in the variable.

When communicating with the print manager, the requested information is returned to the **Fm_sts.bin** file.

1. Turnover for each type of negative items

```
.. [ ] ▼ negativeItems {3}
.. [ ]   amount : -1368.18
.. [ ]   count : 33
.. [ ]   ▼ items [5]
.. [ ]     ▼ 0 {4}
.. [ ]       amount : -5.18
.. [ ]       count : 8
.. [ ]       doc : Odpocitana zaloha
.. [ ]       type : OZ
.. [ ]     ▼ 1 {4}
.. [ ]       amount : -102.00
.. [ ]       count : 8
.. [ ]       doc : Vymenny poukaz
.. [ ]       type : VP
.. [ ]     ▼ 2 {4}
.. [ ]       amount : -510.00
.. [ ]       count : 8
.. [ ]       doc : Vratenie tovaru
.. [ ]       type : V
.. [ ]     ▼ 3 {4}
.. [ ]       amount : -700.00
.. [ ]       count : 1
.. [ ]       doc : Vratne obaly
.. [ ]       type : VO
.. [ ]     ▼ 4 {4}
.. [ ]       amount : -51.00
.. [ ]       count : 8
.. [ ]       doc : Zlava
.. [ ]       type : Z
```

Only the turnover that is different from zero is displayed.

- total negative turnover
- the number of negative items

Turnover in individual negative items

- negative turnover in the deducted advance
- number of items deducted from advances
- the name of the negative item
- negative item type **OZ** – deducted advance
- negative turnover in returnable packaging
- number of items of returnable packaging
- the name of the negative item
- negative item type **VO** – returnable packaging
- negative turnover when returned goods
- the number of items with returned goods
- the name of the negative item
- negative item type **V** – return of goods
- negative turnover exchange voucher
- the number of exchange voucher items
- the name of the negative item
- negative item type **VP** – exchange voucher
- negative turnover discount granted
- the number of items of granted discounts
- name of the negative item
- negative item type **Z** – discount granted

2. Turnover in individual currencies

Only currency in which the turnover is different from zero is displayed. Printers support 8 types of currencies. Currency number 1 is defined for Cash.

▼	payments	[5]
▼	0	{2}
	amount	: 1260.05
	type	: 1
▼	1	{2}
	amount	: 400.00
	type	: 2
▼	2	{2}
	amount	: 300.00
	type	: 3
▼	3	{2}
	amount	: 200.00
	type	: 4
▼	4	{2}
	amount	: 100.00
	type	: 5

Turnover in currency 1

- total turnover in the currency

- type of currency – Cash

Turnover in currency 2

- total turnover in the currency

- type of currency – Payment card

Turnover in currency 3

- total turnover in the currency

- type of currency – Currency 3

Turnover in currency 4

- total turnover in the currency

- type of currency – Currency 3

Turnover in currency 5

- total turnover in the currency

- type of currency – Currency 5

3. Turnovers in the zero VAT rate by individual types

Only types in which the turnover is different from zero are displayed.

▼	specialRegulations	[8]
▼	0	{2}
	amount	: 260.70
	type	: CK
▼	1	{2}
	amount	: 86.90
	type	: OOD
▼	2	{2}
	amount	: 173.80
	type	: PDP
▼	3	{2}
	amount	: 347.60
	type	: PT
▼	4	{2}
	amount	: -0.02
	type	: RND
▼	5	{2}
	amount	: 434.50
	type	: UD
▼	6	{2}
	amount	: 521.32
	type	: ZP
▼	7	{2}
	amount	: -630.00
	type	: VO

Total turnover for goods and services not subject to VAT

- amount of turnover

- type **CK** – travel agencies

- amount of turnover

- type **OOD** – tax free

- amount of turnover

- type **PDP** – transfer of tax liability

- amount of turnover

- type **PT** – used goods

- the amount of rounding of the currency Cash

- type **RND** – total rounding of Cash

- amount of turnover

- type **UD** – works of art

- amount of turnover

- type **ZPS** – collectors' items and antiques

- amount of turnover

- type **VO** – returnable packaging

4. Turnover at individual VAT rates

▼ vats [3]
▼ 0 {4}
amount : 1194.80
tax : 0.00
vatBase : 0.00
vatRate : 0
▼ 1 {4}
amount : 869.00
tax : 79.00
vatBase : 790.00
vatRate : 10
▼ 2 {4}
amount : 1738.00
tax : 289.67
vatBase : 1448.33
vatRate : 20

Only types in which the turnover is different from zero are displayed.

- turnover
- tax
- tax base
- tax rate 0%
- turnover
- tax
- tax base
- tax rate 10%
- turnover
- tax
- tax base
- tax rate 20%

10. Configuration Sequences

>>>>

After sending <ESC>+ sequences with the appropriate parameter the eKasa printer sets the desired configuration. If the command is executed correctly, the printer sends the ACK character, in case of an error the NAK character.

<i>Function:</i>	Setting a sharp mode	>>>>
<i>Command:</i>	<ESC>+T 0<ESC>e	
<i>Format:</i>	<0x1B><0x2B><0x54><0x30><0x1B><0x65>	
<i>Description:</i>	After sending the given sequence, the eFT4000, FT5000 is set to sharp mode.	
<i>Note:</i>	In case of a sharp mode, it is possible to print cash register documents, invoice payments, deposits, withdrawals, additionally entered receipts to e-kasa and other documents. All printed outputs are saved in a protected data storage facility.	

<i>Function:</i>	Setting of testing mode	>>>>
<i>Command:</i>	<ESC>+T 1<ESC>e	
<i>Format:</i>	<0x1B><0x2B><0x54><0x31><0x1B><0x65>	
<i>Description:</i>	After sending a given sequence, the eFT4000, FT5000 is set to a training mode. In the documents, the text N E P L A T N Ý D O K L A D (VOID DOCUMENT) is printed in each third line.	
<i>Note:</i>	Only cash register documents can be printed in the test mode. It is used to demonstrate the operating software and operators' trainings. These documents are also saved in a secured data storage and need to be archived in accordance with the legislation.	

<i>Function:</i>	Setting VAT rates	>>>>
<i>Command:</i>	<ESC>+d VAT1<CR>VAT2<CR>VATFREE<CR>VAT1OLD<CR>VAT2OLD<CR> VAT3<CR>VAT3OLD<CR><ESC>e	
<i>Format:</i>	<0x1B><0x2B><0x54><0x64>VAT1<0x0D>VAT2<0x0D>VATFREE <0x0D>VAT1OLD<0x0D>VAT2OLD<0x0D>VAT3<0x0D>VAT3OLD<0x0D> <0x1B><0x65>	
<i>Description:</i>	After sending the given sequence, new VAT rates will be set.	
<i>Note:</i>	Setting VAT rates VAT1 – 23% higher tax rate VAT2 – 19% lower tax rate VATFREE – 0 tax free VAT1OLD – 20% original higher tax rate VAT2OLD – 10% original lower tax rate VAT3 – 5% lower tax rate VAT3OLD – 0% original lower tax rate	

11. Description of Changes Compared to the Previous Version



These changes will be integrated in the following versions of the eKASA client computer program PPEKK:

- For FT5000 printers – PPEKK FT5000-2.0.0 version
- For FT4000 printers – PPEKK FT5000WIN version – 2.1.0

1. A new type of RND variable is created for the rounding parameter, to which the parent application can send the height of the rounding. The rounding variable is at zero rate, and the sequences are as follows:

- Positive rounding - **3NNC**
- Negative rounding - **6ANC**

In the case of negative rounding, the UID of the original document is not indicated.

For a more detailed description, click on the following link:

[Description of the control sequences of rounding](#)

Click on the following link to view the sample receipt:

[The receipt with the rounding of cash](#)

[The invoice with the rounding of cash](#)

2. Extended response to command **<ESC>! I** - [Information on the last receipt](#)

Variables added:

- billAmount - calculation of the total value of the receipt with rounding
- round - calculation of the rounding value of the currency Cash
- RP - calculation of the value for returnable packaging

3. Extended response to command **<ESC>! R** – Turnover at the cash register since the last daily closing.

- In the section:
- dailySales, a variable of the RND type has been added, in which the amount of rounding of the Cash as means of payment is calculated separately for cash receipts and invoice payments
- specialRegulations, a variable of the RND type has been added, in which the total amount of rounding of the Cash as means of payment is calculated.

[Information about the amount of rounding](#)

4. New order to obtain detailed information about the document **<ESC>! r** – retrieving detailed information about a specific document saved in the document database based on the receipt number.

New order to obtain detailed information about the document **<ESC>! n** – retrieving detailed information about a specific document saved in the document database based on receiptID.

[Document Information](#)

5. New optional variable to assign a unique document identifier by sales applications.

The variable **^n receiptId ^k** must be unambiguous and can be used to indicate the documents sent from the sales application. Based on receiptId, the **ESC>! n** command can retrieve detailed information about a specific receipt.

DESCRIPTION – ROUNDING OF CASH:

Only receipts which are paid by Cash shall be rounded. If a document is to be paid with multiple currencies, it must be rounded so that the currency Cash is rounded to the 5 cents. In the VAT itemization within the receipts, an RND line will be added showing the rounding value of currency Cash.

A new Currency marked **Rounding**: will be added which will reflect the total amount of the rounding of the Currency Cash in the overview closing. This currency will not be available for programmers.

For documents with an obligation to round, the printers FT5000 and FT4000 will check:

1. Whether there is a rounding variable within the receipt
 - if it is, then the rounding of the receipt is under the direction of the parent application
 - if it is not, rounding is automatically calculated on the basis of the currency cash.
2. The value of the rounding of currency Cash is checked if it is in the range of <-2 to 2> cents.
If the amount of the receipt is up to 5 cents, the value of the currency Cash can be in the range of <-4 to 4> cents.
3. The final amount of the receipt shall be checked against the amount of the items of the receipt.
A difference of <-2 to 2> cents is allowed.
If the amount of the receipt is up to 5 cents, a difference of amounts in the range of <-4 to 4> cents is allowed.
4. The total price of the receipt must include rounding.

Changes to printed documents and closing

- In the cash receipt with the obligation to round the cash, a line in the receipt will be added with the calculation of a rounding value.
- A line will be added to the overview closing with the calculation of the rounding value.
- Currency 1 is defined as Cash.
- A new Currency 9 marked as **Rounding**: will be added in which the amount of rounding will be cumulated. This currency will not be available for programmers.