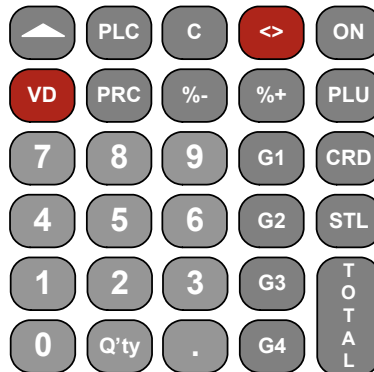


USER'S MANUAL
DP-50
TANZANIA, ZIMBABWE


MAIN FUNCTION AND TECHNICAL CHARACTERISTICS
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Parameter	Description
Capacity of the items database	Up to 5000 items
Item name length	up to 22 characters
Maximal Sold quantity of one item	up to 99 999,999kg (100 pieces)
Barcode types	EAN-13,EAN-8,UPC, Barcode from a scale labels;
Tax type	VAT, up to 6 tax groups
Inventory groups	up to 2 inventory groups
Groups	4
Number of operators	up to 30 - and of them up to 2 active
Maximal number of sales in one receipt	above 150
Types of service	a) control of store exit; b) ECR which serves one stand
Types of payment	cash, check, card, credit
ECR operation modes	1.R /Registration/ 4.P /Programming/ 7.S / Service mode/ 2.X /Report/ 5.GPRS /Configuration/ 8.T / Test / 3.Z /Report with clearing/ 6.Reset GPRS 9.Communication with PC
Receipts archive for reading from PC	Yes
Fiscal memory	Non-volatile, can keep up to 2400 reports
Journal	DP-50 store journal to an Electronic Journal (EJ) card.
Total number of VAT changes	Max 20
Thermal printer type	MLT-289
Speed of printing	12 rows / sec
Built-in accumulator	Yes (always)
Operators LCD display	2 lines x 16 characters
Customer LCD display	2 lines x 16 characters
Thermal paper	- paper width 57 mm, thickness 60 ÷ 72µm, roller diameter up to ø 55 mm
Power supply	adapter 110÷240V 50Hz/12VDC/2500mA for charging of built-in accumulator
Clock/calendar	Stores information for at least 90 days after switching off the ECR
Connection to PC	RS-232C (1 port)
Scale support	Yes
BCR connection	Yes
Drawer support	No


KEYBOARD




SWITCHING THE ECR ON/OFF

The ECR comes complete with mains adapter. The adapter is intended to operate with 220VAC +/- 22-33V / 50Hz input voltage. The ECR can be switched on by pressing the key . On the display is shown:



. The ECR can also be switched off manually by pressing the key .

If the ECR is into a sub-mode, the operator can turn it back into 'OFF' mode by pressing the key: .

From any state the ECR can be switched off (emergency) by simultaneously pressing the keys:



Turn the ECR mains adapter to charge the built-in accumulator 24 hours before starting to use the ECR.

BEFORE STARTING WORK, CHECK WHETHER THERE IS A PAPER ROLL INSERTED INTO THE ECR!

OPERATION MODES

The working mode can be set when on the display is shown:



- 1** **R** **REGISTRATION** - Registering of the sales
- 2** **X** **X REPORTS** - Reports of the ECR
- 3** **Z** **Z REPORTS** - Reports of the ECR with clearing
- 4** **P** **PROGRAMMING** - Programming of the ECR settings
- 5** **GPRS** Configuration GPRS (available If the service jumper is activated)
- 6** **Reset GPRS** Reset GPRS(available If the service jumper is activated)
- 7** **S** Service mode (available If the service jumper is activated)
- 8** **T** Control tests
- 9** **OFF-LINE** Programming and reporting from PC
(by using the application "Ecr Tool" or its analog)
- .** Showing the battery voltage and the current date and time.
- 0** Turning off the ECR when it is in '**OFF**' mode and if it is not supplied from the mains adapter.

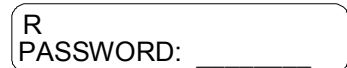
The operators have no equal rights when accessing the modes. The access permissions are defined as the follows:

- operators 1 ÷ 24 (cashiers) are allowed to access only REG mode;
- operators 25, 26 are allowed to access REG and X modes;
- operators 27, 28 are allowed to access REG, X and Z modes;
- operators 29, 30 (managers) are allowed to access the modes REG, X, Z and PGM;
- all operators are allowed to access the modes 7, 8, 9.

Access to the modes which requires password:

Operator ⇒	1÷24	25,26	27,28	29,30
Mode ↓				
1 REG	+	+	+	+
2 X	-	+	+	+
3 Z	-	-	+	+
4 PGM	-	-	-	+

After pressing a key to choose a mode on the display is shown invitation for operator's password entering:
To enter into a mode, the operator should enter his password and then to press the **TOTAL** key.



PROGRAMMING MODE

If you are programming your ECR by oneself read carefully this chapter.

If your ECR is already programmed by service specialist, skip this chapter and read the chapter "MODE R - REGISTERING".

The item price changes are always allowed. For the other item parameters programming is allowed at any moment only for the items with zero turnover.

The other ECR settings can be programmed only after daily Z report.

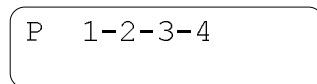
1 In order to access the mode "Programming" from 'OFF' state press key **4**.

2 - On the left side on the display the letter 'P' is shown and on the next row is shown a prompt for password.

Enter the password digits and press **TOTAL**.



The menu shown should be:



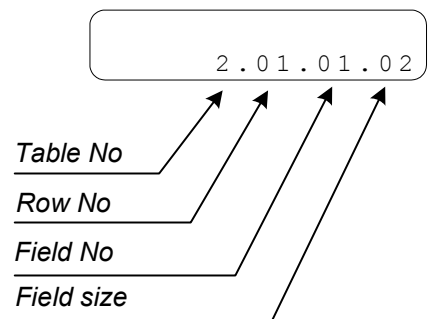
3 – Dependently on the menu content, press key:

- 1** To program items and main parameters
- 2** To program VAT rates and VAT enable/disable flags;
- 3** Setting the fiscal memory in use
- 4** Change the date and time

FUNCTIONS OF THE KEYS IN PROGRAMMING MODE

The programming of parameters is organized in a table structure. Each table consist a given number of rows and any row consist fields. The fields can be symbol or numeric type. The information of each field can be shown in two modes - field address or field value. When a programming sub-mode is accessed, the current position (e.g. the current parameter which can be programmed) is determined on the display with the field address as is shown on the figure on the right.

The only exception is the table for items programming. When this table is programmed on the upper display row are shown the first 16 characters from the item name, stored on the current table row.



After selection of a sub-mode of mode "Programming" the key functions are as follows:

Key	Description
Q'ty	Moving to the next table. The table with rearmost number is followed by the table with the smallest number
%+	Move to higher-number field.
%-	Move to lower-number field.
PRC	Move to a higher-number row.
VD	Move to lower-number row.
TOTAL	Store any information entered.

STL	Switching the mode of indication (address / value)
CRD	Printing the fields value
PLC	1. Physically save to fiscal memory the contents of a row of respective table and change of the clock-calendar parameters (clock-calendar setting). (Save is confirmed pressing <0>). 2. Move to a row of number N when items are programmed. To this effect: Pressing key <STL> move to "address" mode when the current mode is "value". Press <PLC> . Using the numerical keys, enter the required number N . Press <PLC> again.
G1	One position forward when editing a symbol field
G2	One position backward when editing a symbol field
C	Clearing the field's contents

Editing of a parameter is possible both in mode "address" and mode "value". With starting editing mode «value" is selected automatically. After completion of parameter editing (in order to save it), press **TOTAL**.

If the operator misses to press **TOTAL** the cash register value parameters will remain unchanged.

With symbol fields, symbols are selected via consecutive pressing of the numeric keys and with longer time intervals between two consecutive pressings, the pointer automatically moves to the next position (as with mobile phones). Via consecutive pressing of **PLU**, move to select characters – Latin alphabet or digits. The symbols identification is displayed in the upper right corner via three symbols as follows:

- Latin alphabet (**ABC**)
- digits (**123**)

The following diagram present the way to select the symbol of the alphabet:

(ABC)			(123)		
7 ., - № ! "7	8 ABC8	9 DEF9	7 7	8 8	9 9
4 GHI4	5 JKL5	6 MNO6	4 4	5 5	6 6
1 PQRS1	2 TUV2	3 WXYZ3	1 1	2 2	3 3
00	0 *=:/? 0 @	. space	00	0 0	. space

Selection of a symbol on a key is performed via repeated pressing of the respective key up to indicating of the symbol to be selected.

NOTE:The symbol "@" is considered as a special. When a text is programmed, by typing "@" prior other symbol, that other symbol will be printed as **BOLD** (with double line width).

MODE PROGRAMMING P1 PROGRAMMING OF ITEMS AND MAIN PARAMETERS

This mode can be accessed from state 'OFF' by consecutively pressing the keys <4>, password, TOTAL, <1>. The parameters which can be programmed in this mode are:

TABLE	DESCRIPTION
1	ITEM PARAMETERS
2	SHOP ORGANIZATION
3	OPERATORS
4	PERCENTAGE DISCHARGE/SURCHARGE
5	PARAMETERS FOR SETTING THE RECEIPTS OUTLOOK

Table 01: Item parameters

The rows in Table 1 are 5000. Each row is of 7 fields.

Field No	Description	Range	Note
1	Name	Up to 22 characters	Blank field
2	Tax group	From 1 to 6	0: Prohibited the sale Default: 0
3	Barcode	Up to 14 digits	Default: 0
4	Price	Up to 9 digits	Default: 0.00
5	Price type	0 or 1	Sale is possible: 0: Only with the programmed price 1: With programmed or free entered price Default: 1
6	Group (departments)	From 1 to 4	Default: 1
7	Item group	From 1 to 2	Default: 1



Note: When an item parameter has unallowable value its sale is not possible. It is not possible to make a sale with an item with empty name (containing only spaces).

Note: When the symbol "=" is shown in the left lower corner on the display, this indicates non-zero turnover for this item. In this case it is allowed to change only price or barcode (from search mode). In order to change the other item parameters the turnover must be cleared.

Table 02: Shop organization , 1 row and 9 fields

Field No	Description	Range	Note
1	ECR logical number into the shop	1 ÷ 99	Default: 1
2	Scale support	0,1,2	0: no scale; 1: Configured to work with a scale of type DATECS 2: Configured to work with a scale of type ANGEL or DIBAL Default: 0
3	Price without VAT	0 or 1	0: Price without VAT 1: Price with VAT Default: 0 Note: In fiscal mode this flag can be changed if the service jumper is activated.
4	No passwords are used	0 or 1	0: The passwords usage is enabled 1: The passwords usage is disabled Default: 0 Note: This flag has no effect if the service jumper is activated.
5	Verification for equal item names when a PLU name is tried to be programmed;	0 or 1	0: The verification is disabled; 1: The verification is enabled; Default: 1

			Note: If enabled, when a new item name is tried to be programmed, the ECR will check whether in the PLU database already exists an item with the same name. If such item exists, the programming of the current item will be denied until its name is changed. The operation for verification takes some time.
6	Auto Power Off in REG mode between the receipts	0 or 1	0:Disabled 1: In REG mode the ECR automatically turning-off if there is no active receipt and if 30seconds expires with no activity; By pressing "ON", the ECR restores its state back to REG mode. Default: 0
7	Clearing of the quantities and turnovers of the items when a daily Z report is made	0 or 1	0:Disabled, 1:Enabled Default: 1
8	Reserved		
9	Communication speed	1,2,3,4	1: 4800 bps 2: 9600 bps 3: 19200 bps 4: 38400 bps (default)

Table 03 : Operator names and passwords

Each row keeps the settings for one operator and the row number is equal to the operator number. The rows are 30 as are the maximal operators supported, fields: 2

Field No	Description	Range	Note
1	Operators name	up to 10 symbols	Default: OPERATORxx (xx-the operators number)
2	Operators password	up to 8 digits	Default: same as the operators number.

Table 04 : Percentage discharge/surcharge settings in REG

This table consist 2 rows – row № 1 for "%+" and row № 2 for "%-". Each row has 2 fields:

Field No	Description	Range	Note
1	Enables the key usage in REG - to make "Surcharges" with the key "%+" and to make "Discharges" with the key "%-"	0 or 1	1: Enables the key usage Default: 1
2	The value programmed for operation with that key	0.00% to 99.00%	Default: 0.00

Table 05 : Receipt format 1 row and 8 fields.

Field No	Description	Range	Note
1	Printing contrast	From 0 to 9	Default: 5
2	Reserved		
3	Printing the name operator	0 or 1	0: Disabled, 1:Enabled Default: 0
4	Reserved		
5	Direction of entering the price (which part of the price is first entered)	0 or 1	0:Short, 1:Expanded Default: 0
6	Reserved	0 or 1	0:Disabled, 1:Enabled, Default: 1
7	Reserved		
8	Reserved		

MODE PROGRAMMING P2 PROGRAMMING OF SPECIFIC PARAMETERS

Table 04: Tax groups , 1 row, 6 fields

Field No	Description	Range	Note
1	Percentage for tax group 1	0.00 ÷ 100.00	Default: 18.00
2	Percentage for tax group 2	0.00 ÷ 100.00	Default: 0.00
3	Percentage for tax group 3	0.00 ÷ 100.00	Default: 100.00
4	Percentage for tax group 4	0.00 ÷ 100.00	Default: 100.00
5	Percentage for tax group 5	0.00 ÷ 100.00	Default: 100.00
6	Percentage for non-taxable	0.00	Default: 0.00 Note: read only

Changing tax rates requires a daily report with clearing. Up to 20 changes per fiscal memory are possible. Entering a percentage value for the tax rate automatically allows working with it. If the value entered is 100 the work with the tax rate is forbidden.

After entering a value into a field of Table 4, it is needed the key **<TOTAL>** to be pressed.

Prior setting up the fiscal memory in use, it is not possible the Table 4 data to be written in the fiscal memory. After setting up the fiscal memory in use, when the data is modified, it has to be written into the fiscal memory. To do that, after the modifications are done (for all fields needed in Table 4), the key **<PLC>** must be pressed, and the dialog shown to be confirmed.

Table 05: Data TAXOFFICE, 1 row, 3 fields

This table consists of 3 rows. Each row has 1 field which contains up to 42 symbols.

In this table the information about the Tax Office is programmed. The address is programmed in the first and second rows. The tax number is programmed in the 3rd row. The rows with programmed data are printed out after the cliché. If the ECR is fiscalized the information can be changed only with the service jumper installed. If the ECR is not fiscalized the information can be changed without the service jumper installed.

Row No	Text placed in the receipt	Text by Default
1	1-st row from the data	
2	2-nd row from the data	
3	3-th row from the data	

Table 06: Texts into receipt, 1 row, 7 fields

This table consist 7 rows(Texts into receipt).. Each row has 1 field which contains up to 42 symbols.

Row No	Text placed in the receipt	Text by Default
1	1-st row from the slogan	COMPANY NAME
2	2-nd row from the slogan	COMPANY ADDRESS
3	3-th row from the slogan	SHOP NAME
4	5-th row from the slogan	SHOP ADDRESS
5	6-th row from the slogan	-----
6	6-th row from the slogan	-----
7	7-th row from the slogan	-----

Once the ECR is fiscalized the cliché can be changed only with the service jumper installed. The cliché can be changed 10 times for each Fiscal memory.

MODE PROGRAMMING P4 Date and hour

On the display appear the current time settings to be programmed. The new date can not be earlier than the date of the last Z report.

REGISTERING MODE







1. In order to access the R mode, from the OFF state press key 1.







2. On the left upper display corner the letter 'R' appears and the operator is invited to enter his password.

R
PASSWORD: _____

Enter the numeric password sequence and press **TOTAL**.

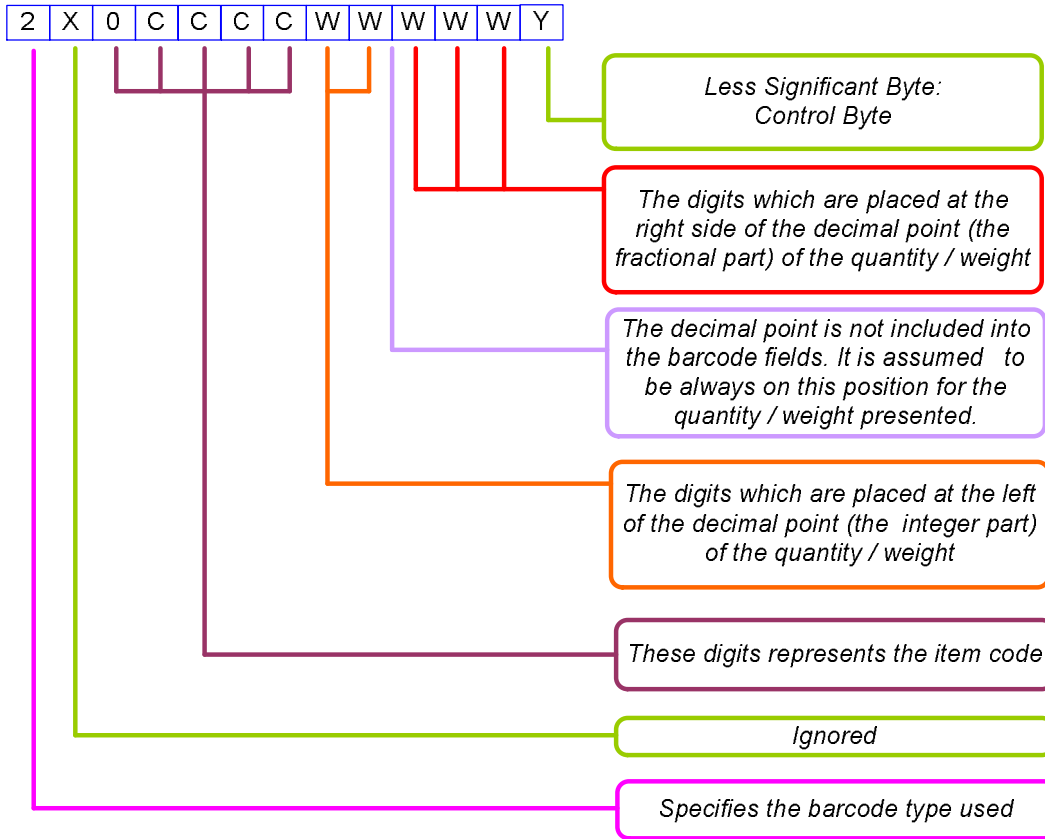
FUNCTION OF THE KEYS IN 'REGISTERING' MODE

Key	Function
	<p>The keys allow direct access to the items stored on the rows from 1 to 4 respectively into the item parameters table</p> <p>The key pressing causes accumulation into the customer bill and also into the quantity and turnover registers of the item. The value entered prior pressing some of these keys is accepted as a price. If the price is not entered, the programmed price is used.</p> <p> Note: It is not allowed a sale with a zero price. This will cause alarm signal to be produced and error message to be shown on the display.</p>
	<p>Specifies, that the previously entered number is a PLU-code of an item. Causes an accumulation of the selected PLU into the customer's bill. When the PLU-code is entered, the decimal point is ignored and the value entered is assumed as integer one.</p>
	<p>1. With this key immediately after a sale is made a cancellation of that sale is performed. The consecutively pressing of that key will cause consecutively cancel all the sales in the receipt.</p> <p>2. In order to cancel a sale which is not the last made in an open receipt, the following keys should be consecutively pressed: <X> and <VD>, than the sale parameters should be entered. If the parameters entered are the same like the sale already made in the same receipt – the cancellation will be executed.</p> <p>Note: The operator should enter the same parameters as they are printed in the receipt on the row which he want to cancel. If there are surcharges/discharges made over the item, they will be cancelled together with the sale cancellation.</p>
	<p>1. Specifies, that the value entered is a quantity. The decimal point position on the display is checked.</p> <p>2. When the ECR works with a scale, the pressing of that key without prior entered value will cause the quantity from the scale to be received.</p>
	<p>1. Specifies that the previously entered value is a price: The decimal point position on the display is checked. This key is used for entering a free price of an item. First, the price value is entered, than <PRC> is pressed. Than the item desired should be specified.</p> <p>2. It is used to select an item by its barcode. By pressing the key <PRC> before entering a number, on the display appears "BARCODE", than the operator should enter the barcode and again to press <PRC> in order to make a sale with the item which has such barcode.</p>

	<p>Subtotal operation: If this key is pressed after a sale made, this will cause the subtotal of the customer's bill to be shown on the display.</p>
	<p>1. Annuls all digits entered prior a functional key pressing. 2. Annuls any error, caused by function key pressing. The errors are presented on the display by the error message "C".</p>
	<p>The key is used for payment with check, with card or credit ; First is entered the amount given. The key <CRD> is pressed. A dialog screen appears:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>1=CHECK 2=CARD 3=CREDIT</p> </div> <p>Press the appropriate numeric key to choose the payment desired. When the choice is made if possible, a payment is performed. A mixed payment is allowed. When a part of the total amount is entered and a key for payment is chosen on the display is shown the remaining part of outstanding amount. The receipt can be closed also with other kind of payment. The amount paid with card should not exceed the outstanding amount. A mixed payment is allowed. When a part of all amount is entered and a key for payment is pressed this partial amount and the payment type are printed, and on the display is shown the remaining part of outstanding amount. The receipt can be closed also with other kind of payment.</p>
	<p>Percentage surcharges, received on, accessing items 1. The pressing of this key will cause adding a percentage surcharge to the amount of the last sale or if the key <STL> is prior pressed - it adds percentage surcharge to the subtotal. The percentage value can be in the range 00.00 to 100.00. 2. If there is no customer receipt open, this key is used for operation „RECEIVED ON " (received on amount). The amount is entered following way:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>RECEIVED ON 0.00</p> </div> <p>-press key <%+> (On the display is shown); -enter the amount ; -press key <TOTAL>;</p>
	<p>Percentage discharges, received out, accessing of items 1. The pressing of this key will cause subtracting of a percentage discount from the amount of the last sale or if the key <STL> is prior pressed - it subtracts percentage discharge from the subtotal. The percentage value can be in the range 00.00 to 100.00. 2. If there is no customer receipt open, this key is used for operation "PAID OUT" (e.g. paid out amount) The amount is entered following way:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>PAID OUT 0.00</p> </div> <p>-press key <%-> (On the display is shown); -enter the amount ; -press key <TOTAL>;</p>
	<p>Causes the customer bill to be closed and causes cash payment to be performed. If before pressing this key is entered the amount which the customer has paid in a cash, they are printed both the total amount and the change - if the customer has paid in cash more money than needed. If he paid in cash less the money than needed - a partial paid is performed. The partial payment is allowed into alternative currency, for details refer the explanations for <CRD></p>

USING BARCODES FROM A SCALE LABELS

Barcode format , when into barcode are specified the item code and quantity / weight:

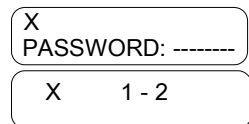


Note: This type of barcode is supported also when the barcode is entered from the keyboard; In this case the checksum should be specified, but the value is ignored;

REPORTS

MODE X

- 1 In order to access the X mode, from 'OFF' state press the key <2>.
- 2 - In the left upper corner on the display the letter 'X' is shown and on the next row shows an invitation for operators password. Enter the password and press **TOTAL**.
- 3 - On the display is shown:



The sub modes to be chosen are:

- 1 X reports
- 2 Print at active TAX groups

MODE X1

When this mode is accessed, on the display is shown:

X PLC CRD PRC
PLU TL STL

Press a key:

key	Description
PLC	<p>Reporting the programmed parameters of the items. Only valid items (with non-space names and valid tax group) are reported; The report can be executed for all items (by pressing TOTAL) or for a given items range. The range setting-up is made in the same way as for the report started with the key <PY>. After finishing the report printing for the range selected, a new report can be chosen for another range. While the printing is in progress, it can be cancelled by pressing any key; This mode can be cancelled with the key: - <X>- to go into the main X menu; - <OFF>- to exit into the 'OFF' mode.</p>
CRD	<p>Reporting the items turnover; Only items with non-zero turnover can be reported;The report can be executed for all items (by pressing TOTAL) or for a given items range. The range can be set with determining the first item. The first item from the range is determined with the row number from table 1 on which this item is stored. The row number is set by entering its number and pressing <%-> or <%=>; Using the keys <%-> and <%+> you can move "forward" and "backward" over rows in Table 1. The pressing of TOTAL starts the report printing from the first row to the last. If prior pressing the TOTAL key, an integer value <i>n</i> is entered, the report will include the information for only <i>n</i> items after the initial row number, with non-zero turnover. After finishing the report as initial item is automatically set the first item with higher row number than the last into the report made, and which has non-zero turnover. After finishing the report printing for the range selected, a new report can be chosen for another range. While the printing is in progress, it can be cancelled by pressing any key; This mode can be cancelled with the key: - <X>- to go into the main X menu; - <OFF>- to exit into the 'OFF' mode.</p>
TOTAL	Daily financial report
PRC	NOTXBL items report;
PLU	<p>Report of the turnovers by departments and by item groups The report includes: - the turnover for each department; - the total amount of the departments turnover; - the turnovers by items groups; - the total amount of the turnover for the item groups.</p>
STL	<p>On the display is shown:</p> <p>X OPERATOR 1 - 3 0</p> <p>The report can be executed for all operators (by pressing TOTAL) or only for one operator (by entering the operators number and pressing TOTAL). The mode "operators report" can be cancelled by pressing: - <X>- to go into the main X menu; - <OFF>- to exit into the 'OFF' mode.</p>
G1	EJ Reports

EJ REPORTS

All documents issued in REG-, X-, and Z-modes will be stored to the EJ card.

During the fiscalization procedure, an empty EJ card must be present in the EJ card module. Immediately after the fiscalization procedure, a question about formatting the EJ card is asked. The answer should be 'yes' – key **<TOTAL>** should be pressed. The EJ card will be formatted. After that this EJ card can be used only in this ECR.

After the fiscalization the ECR can not work with the EJ card disconnected - a message 'EJ DISCONNECTED!' will be displayed and the ECR will switch off.

EJ-reports mode is entered with pressing the **<G1>** key in X1-mode .

Type reports and sequence of keys for their activation:

Keys sequence	Will be printed
<TOTAL>	Information about the EJ
<STL>	Information about all Z-reports
ZZZZ <STL>	Information about the Z-reports after a given Z-report
begZZZZ.endZZZZ <G2>	All documents in the range
DDMMYYhhmm.DDMMYYhhmm <G2>	All documents in the range
ZZZZ <G2>	All documents in ZZZZ report
DDMMYY <G2>	All documents issued on the date (from 0:00 h to 23:59h)
ZZZZ <G1>	Only Z report

Keys sequence	Will be sent to PC
<PLU> <TOTAL>	Information about the EJ
<PLU> <STL>	Information about all Z-reports
ZZZZ <PLU> <STL>	Information about the Z-reports after a given Z-report
begZZZZ.endZZZZ <PLU> <G2>	All documents in the range
DDMMYYhhmm.DDMMYYhhmm <PLU> <G2>	All documents in the range
ZZZZ <PLU> <G2>	All documents in ZZZZ report
DDMMYY <PLU> <G2>	All documents issued on the date (from 0:00h to 23:59h)
ZZZZ <PLU> <G1>	Only Z report

- ZZZZ - number of a Z-report (4 digits),
- DDMMYY - date (6 digits),
- DDMMYYhhmm - date and hour (10 digits),
- begZZZZ.endZZZZ - range defined by the numbers of the first and the last Z report,
- DDMMYYhhmm.DDMMYYhhmm- range defined by the date and hour of the first and the last document

Example :

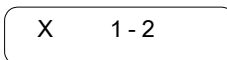
Print all documents in the range from 15 Z-report to 23 Z-Report:

- 1 In order to access the X mode, from 'OFF' state press the key **2**.
2. In the left upper corner on the display the letter 'X' is shown and on the next row shows an invitation for operators password.



Enter the password and press **TOTAL**.

3. On the display is shown:



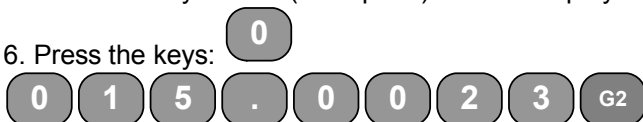
4. Press the key **1** (X-reports). On the display is shown:



5. Press the key **G1** (EJ-reports). On the display is shown:



6. Press the keys:



Changing the EJ card

If the ECR becomes full or damaged, it can be replaced with an empty EJ card. The changing will be successful only after the last Z-report issued or after a RAM RESET.

When the ECR finds out that a new empty EJ card is connected, the question about formatting the EJ card

will be asked and should be answered with 'yes'. EMPTY EJ CARD
TOTAL= FORMAT

After formatting the new EJ card (the ECR's serial number will be stored to the EJ card), this EJ card can be used only in this ECR. This card will have the next serial number (after the first change the number is 0002).

Printing reports from a previous EJ card

The previous EJ cards used in one ECR, can be inserted in the ECR (only the same ECR and If there is no customer receipt open) and the EJ-reports from the EJ card can be printed. However, the ECR with a previous EJ card inserted, will not work in other modes – the only mode available will be the 'EJ-reports' mode.

After printing the reports from a previous EJ card, the last used EJ card or an empty EJ card has to be inserted for allowing the work of the ECR in all modes.

Overflow on the EJ card

When the EJ card is full on the display is shown: OVERFLOW
FULL EJ CARD!

It is necessary to make Z report and the ECR turn off. After power on the ECR is possible to make reports EJ card only.

MODE Z

1. In order to access the mode Z from the OFF state - press the key <3>.
2. In the left upper side on the display the letter 'Z' appears and on the next row an invitation for password is shown.
Enter the numeric keys password sequence and press **TOTAL**.
- 3 On the display is shown:

Z
PASSWORD: -----

Z 1 - 2

The sub modes to be chosen are:

- 1 Z reports
- 2 Report FM

MODE Z1 - REPORTS WITH CLEARING

When this mode is accessed, on the display is shown:

If Table 2 , Field 7 = 0 Z
PLU TL STL

If Table 2 , Field 7 = 1 Z
PLU TL

Key

Report

T
O
T
A
L

Daily report and clearing;

After the reports are printed, the registers involved are cleared automatically.
When the field 7 of table 2 is set to 1, the turnovers and quantities of the items are also cleared.
While printing the daily report the ECR sends the data from this report to the tax server. After the report data has been transferred successfully the daily report with clearing is printed.



Reporting and clearing the turnovers and the quantities of the items. This report is available only when the field 7 from table 2 is set to 0.

Reporting and clearing the operator's debts.



On the display is shown



The report can be executed for all operators (by pressing **TOTAL** only) or for separate operator by entering operators number and after pressing **TOTAL**.

MODE Z2

This mode is intended to fiscal memory reporting. On the display appears the numbers of the first and last fiscal memory blocks used. It is possible to enter the time period by the block numbers from the fiscal memory or by dates.

Setting up the report period, using fiscal memory block numbers	Setting up the report period, using start and end dates
1. Enter the number of the initial block, press	1. Enter the number of the initial date, press
2. Enter the number of the last block, press	2. Enter the number of the end date, press
	Note: The format is DDMMYY – if the first digit is 0, it can be skipped.

To start a report, press **<TOTAL>** (Summary fiscal report-monthly report) or **<STL>** (Detailed fiscal report-annual report).

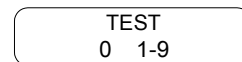


Note: The report range is by default determined from the first and the last information blocks written into fiscal memory. So you can change only the report boundary you need to change. If the block number desired is already on the display, you have no need to enter it again.

OTHER MODES

MODE 8 - CONTROL TESTS

From state 'OFF' of the ECR, with key 8 is accessed the state:



The tests are activated with the keys from 1 to 9, the key ':' is used, and the pressing the key 0 will cause automatically execution of the tests from 1 to 5.

The tests types are:

Key	Action	Key	Action
	Printer test;		Display test;
	Memory test;		Keyboard test;
	Test - reading from the fiscal memory;		Test - writing into the fiscal memory;
	Clock test - the current date and time will be shown till 1 minute expires from the beginning of this test or till any key is pressed.		Full fiscal memory test;



The accumulator voltage level is shown ;



Printing parameters, which identify the ECR.



The tests 1 to 5 repeats any 10 minutes in a loop;
Serial port

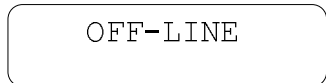


EJ card



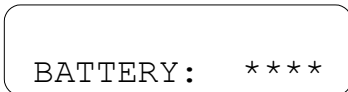
MODE 9 - PROGRAMMING AND REPORTING TO PC

From the ECRs OFF state, by pressing the key 9 you will access the state: In mode 9 the ECR is waiting for communication – programming and reporting from PC. The correct communication baud rate must be prior given into PGM1 mode, table 2 field 9. For programming and reporting is used the application Ecr Tool software or its analog.



DISPLAYING THE ACCUMULTOR LEVEL AND THE CURRENT DATE AND TIME

From the 'OFF' state, after pressing the key for several seconds on the display the accumulator voltage will be shown:



- If it is supplied from accumulator, the level of the battery discharge is indicated;
- If it is supplied from the mains adapter, this mode is not available;

ERROR CODES AND MESSAGES

Error codes:

Error code:	Description	Solution
ERROR #01	Printing device failure	Service intervention is needed
ERROR #02	Program memory failure	
ERROR #03	Operational memory failure (EEPROM 24C256 failure)	
ERROR #04	Fiscal memory error, bad check sum, unable to write	
ERROR #05	The flash memory is not accessible	
ERROR #06	Bad flash memory format	
ERROR #12	Program progress error or RealTimeClock error	
EJ DISCONNECTED!	EJ module is not found	
OVERFLOW! FULL EJ CARD!	The EJ card is full	
ERROR 201	EJ module is not old one	
ERROR 202	EJ module write error	
ERROR 203	EJ module is not formatted	
ERROR 204	EJ module is not valid	