

ELECTRONIC CASH REGISTER

DP-50 / DP-50D

MP-55B

ESTONIA

USERS MANUAL

Bulgaria, DATECS

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Some of the descriptions given in this manual may differ from your device, depending on the software installed.

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INTRODUCTION

This manual presents the technical and functional characteristics of electronic cash register DP-50 / DP-50D / MP-55B and its modes of operation. All important instructions are given in order to prepare the ECR for operation, for its correct usage and maintenance.

DATECS DP-50 / DP-50D / MP-55B is a portable cash register. Its possibilities conform to the customer service requirements and financial accounting in shops, supermarkets, pharmacies, restaurants or other kinds of trade organizations. The cash register ensures complete accountancy for the manager of the trade organisation and for the need of taxation authorities.

**MAIN FUNCTION AND TECHNICAL CHARACTERISTICS
of DATECS DP-50 / DP-50D / MP-55B**

Function / Parameter / Feature	DP-50	DP-50D	MP-55B
PLU database	1000 items		
Plu name length	up to 22 characters		
Maximal Sold quantity of one item	up to 99 999,999kg (100,000 pieces)		
PLU code range	1-9999		
Barcode types	EAN-13,EAN-8,UPC		
Tax type	VAT, up to 8 tax groups		
Number of item groups and departments	up to 10 item groups and up to 4 departments		
Number of operators	up to 30 - and of them up to 2 active		
Maximal number of sales in one receipt	above 150		
Receipt copy	up to 1		
Types of service	<ul style="list-style-type: none"> - Control of store exit - ECR which serves one stand 		
Types of payment	Cash, with check or with coupon; Cash with alternative currency (EUR)		
ECR operation modes	<ul style="list-style-type: none"> - REG /Registration / - X Report - Z /Report with clearing / - Test - Communication with PC * programming and reporting; * sales by PC request; 		
Journal	Electronic, min. 1500rows	with simultaneous printing	Electronic, min. 1500rows
Receipt archive for reading from PC	yes - up to 400 receipts	no	yes - up to 400 receipts
Fiscal memory	Non-volatile, can keep up to 1825 reports		
Thermal printer type	MLT289	MLT289	MLT288
Speed of printing	12 rows / sec		

Built-in accumulator	yes	yes	optional
LCD displays			
operator's 2 rows/16 chars	yes	yes	yes
optional - customer 2 rows/16 chars	yes	yes	yes
Consumables - thermopaper roll	- paper width 57mm - thickness 60 ÷ 72µm - roller diameter up to 55mm	- paper width 28 mm for main and journal tapes	-paper width 57mm
Power supply	mains adapter with operating voltage 220VAC +22/-33V 50Hz for charging of built-in accumulator		
Clock/calendar	Stores information for at least 90 days after switching off the ECR		
Interfaces	1 x RS232	1 x RS232	1 x RS232
Scale support	no	no	yes

ECR OUTLOOK

* DP50



* DP50-D

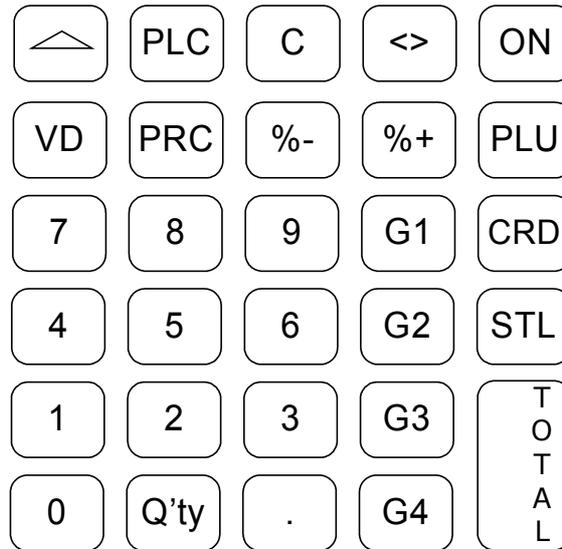


* MP55-B

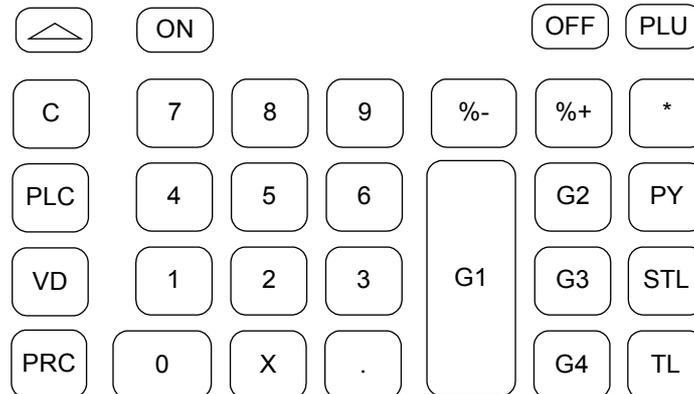


KEYBOARD

DP-50, DP-50D:



MP-55B:



IMPORTANT:

- MP55-B has one key more than the DP-50 / DP-50D ECR's. This is the key . This key is used for payment in alternative currency. In DP-50 / DP-50D this operation is performed using key sequence.

- Three of the keys , , of MP-55B have different symbol appearance compared to the keys , , of DP-50 / DP-50D, but have the same functionality.

UNPACKING

After you take out the ECR from its carton box and remove the pickings and the plastic cover, you will find this manual and the device passport.

IMPORTANT INSTRUCTIONS:

1. **DO NOT install the device under direct sunlight or near heating apparatus!**
2. **DO NOT install the device in locations that have steam, humidity and dust!**
3. **DO NOT use a mains connection in sockets shared by other power consumers (for example refrigerators, motors, etc.)**
4. **Put the ECR on a place which able suitable work and which able both to the customer and to the operator to see the information displayed.**

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: 

When on the display is shown 'OFF' for 30sec, the ECR will automatically turn off. 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

- for DP-50, DP-50D:  - for MP55-B: 

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

- for DP-50, DP-50D:    - for MP55-B:   

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!

√ **Loading the paper roll into DP-50**

- A/ Remove the printer cover;
- B/ Set the paper roll as is shown in the illustration ;
- C/ Pull the paper tape out about 25-30 cm,
- D/ Close the cover, to move the paper use

the key .

E/ Press .



√ **Loading the paper rolls into DP-50D**

- A/ Remove the printer cover;
- B/ Set the paper rolls as is shown in the illustration;

C/ Close the cover, to move the paper use .

- D/ Pull the paper tape out about 25-30 cm,
- E/ Store the tape for journal printing to the end of the winding roll and turn the roll back to its place,
- F/ Pass the main tape through the cover paper slot and turn the cover back to its place.

G/Press the key .



√ **Loading the paper roll into MP-55B**

- A/ Remove the printer cover;
- B/ Set the paper roll as is shown in the illustration below and pass its end through the paper slot of the printing device until you feel resistance,



Correct



Not correct

C/ To move the paper press the key  till the tapes shows up over the slot,

D/ Pull the paper tape out about 25-30 cm,

E/ Pass the main tape through the cover paper slot and turn the cover back to its place.

Press the key .

OPERATION MODES

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

OFF

by pressing the key:

- 1 REG - 'REGISTRATION', Registering of the sales;
- 2 X - 'X REPORTS', Reports of the ECR;
- 3 Z - 'Z REPORTS', Reports of the ECR with clearing;
- 4 PGM - 'PROGRAMMING', Programming of the ECR settings;
- 7 - Connection to PC for:
 1. Reporting the fiscal memory (by using the applications 'Memory Reader' and 'Fiscal Memory Interpreter' or other with similar functionality);
- 8 - Control tests ;
- 9 - 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.

From any state of the ECR with the keys

<> / OFF the current state changes to

OFF

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 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:

R
PASSWORD:-----

To enter into a mode, the operator should enter his password and then to press the **TOTAL** key.

IMPORTANT! In the modes "X" and "Z", the key sequences for starting daily financial report and the reports of the fiscal memory are allowed. These sequences are in accordance with Regulation 4/23 Feb 1999 of the Ministry of Finance

'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 any moment only for the items with zero turnover. The other ECR settings can be programmed only after daily Z report.

There are three programming modes:

- P, 1 - programming of items and main parameters
- P, 2 - programming of specific parameters (tax groups parameters and the identification number of the tax obligated person -BULSTAT)
- P, 3 - Setting up the fiscal memory in use

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

2 - In the left side on the display the letter 'P' is shown and on the next row is shown an invitation for password entering.



A rectangular display box with a black border. The top line shows the letter 'P'. The bottom line shows the text 'PASSWORD:-----'.

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



A rectangular display box with a black border. The left side shows the letter 'P'. The right side shows the text '1-2-3'.

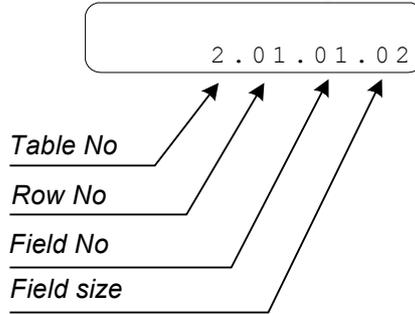
3 - On the display is shown :

4 - Press key:

-  To program items and main parameters
-  To program specific parameters
-  Setting up the fiscal memory in use

FUNCTION 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:



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.

The key functions in 'PROGRAMMING' mode are:

Q'ty / **X** - Moving to the next table. The table with rearmost number is followed by the table with the smallest number

%+ - Moving to a field with higher number

%- - Moving to a field with lower number

PRC - Moving to a row with higher number

VD - Moving to a row with row with lower number

TOTAL - Writing the information entered

STL - Switching the mode of indication (address / value)

CRD - Printing the fields value

PLC - 1. Physically writing into the fiscal memory or into the clock-calendar the contents of the table given (the operation must be accepted by pressing the key **0**)

2. Accessing the row with number "N". For this purpose:

- if the current display mode is "value", by pressing the key  switch to "address" mode.
- press the key 
- using the numeric keys enter the desired number N
- press again the key .

-  - One position forward when editing a symbol field
-  - One position backward when editing a symbol field
-  - Clearing the field's contents

The editing of parameter is possible both from "address" state and from "value" state on the display. With the beginning of the editing automatically the display state changes to show the fields value. After the parameter editing in order to save the value modified into ECR's memory the key **TOTAL** must be pressed. If the operator omit to press the **TOTAL**, the last made modifications will be lost.

When editing a symbol field, the symbols are chosen by consecutively pressing a key, and if the key remain un-pressed for a given time - this will cause the cursor to move automatically on the next position on the display (this is made in a similar way as when editing text in a mobile phone). By consecutively pressing the key **PLU**, the appropriate alphabet can be chosen - Cyrillic, Latin or digits only. The current alphabet selected can be determined by the three symbols which appear on the right upper row:

- For Cyrillic **(АБВ)**
- For Latin **(ABC)**
- For digits only **(123)**

On the figures below is shown how can be chosen the symbols from the different alphabets.

USING THE NUMERIC KEYS FOR SYMBOL EDITING

Cyrillic

7 ., - № ! “7	8 АБВГ8	9 ДЕЖЗ9
4 ИЙКЛ4	5 МНОП5	6 РСТУ6
1 ФХЦЧ1	2 ШЩЪЫ2	3 ЮЯЫЭЗ
0 *=:/? 0 @		. space

Latin:

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

Digits:

7 7	8 8	9 9
4 4	5 5	6 6
1 1	2 2	3 3
0 0		. .

To choose a symbol, the appropriate key must be pressed one or several times till the symbol desired is displayed.

Example:

When the alphabet selected is "Latin" - (ABC), the "C" letter can be chosen by pressing the key

8

 three times.

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 summarized in tables 1 - 8.

TABLE	DESCRIPTION
1	ITEM PARAMETERS
2	SHOP ORGANIZATION
3	OPERATORS
4	SETTINGS OF THE KEYS %- and %+
5	PARAMETERS FOR SETTING THE RECEIPTS OUTLOOK
6	TEXTS INTO RECEIPT
7	DATE AND TIME
8	PARAMETERS FOR SETTING THE WORK WITH ADDITIONAL CURRENCY

Table 01: Item parameters

This table consist 1000 rows - as is the maximal items number.

Each row consist 11 fields.

Field No	Description	Range	Note
1	PLU code	1 ÷ 9999	Default: the current row number
2	Name	Up to 22 characters	Default: For row 1 to 4:DEPARTMENT1-DEPARTMENT4 For the remaining rows (or 5 to 1000) : Space
3	Price	Up to 8 digits	Default: 0.00
4	Quantity	Sold quantity of this item	Read-only
5	Department number	From 1 to 4	Default: For row or 1 - 4 the stands number, respectively 1-4; For the remaining rows (from 5 to 1000) : 4;
6	Item group	From 1 to 10	Default: 1
7	Tax group	From 1 to 8	Default: For row 1 to 4: 2, For the remaining rows: 0
8	PLU or PLU Type	0,1,2,4,5	Sale is possible: 0: Only with the programmed price 1: With programmed or free entered price 2: With a price which entered value is less than the programmed one; 4 : Same as 1 (with programmed and free entered price) and automatically next sale of a linked item. The code of the linked item must be given into field 10, and the quantity must be given into field 11. The quantity must be given as shown: XXXXX.XXX, the dec.point is fixed and can not be entered. The right 3 positions represents the fractional part of the quantity 5: Same as 1 but with automatically finishing the receipt with cash payment. Default : for items 1 to 4: 1 for items 5 to 1000: 0
9	Reserved		
10	Barcode–most significant digits	Up to 6 digits	Default : 100000
11	Barcode–less significant digits	8 digits	Default : 0

Note: When an item parameter has unallowable value its sale is not possible. The sale is also not possible if the field "Tax group" has value 0.

Note: The parameters for each item are written on a separate row in the PLU database. The row number from table 1 which the parameters of item are stored is called code (or PLC code) of the item. It is recommended when the PLU-code of an item is programmed, the value programmed to be equal to the row number of Table 1 in which the parameters of that item are stored.

Example: Programming the name and the price of an item

1. Make daily financial report (OFF,3,password,**TOTAL**)
2. Enter into mode for programming of main parameters (OFF,4,password,**TOTAL**,1)
3. The initial position is Table 1 field 1 row 1 (editing of item parameters). On the display are shown the name of the current item and the address value, for example:

DEPARTMENT1
1.0001.01.04

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 not allowed to edit the name, the PLU code and the tax group for this item. In order to change these parameters the turnover must be cleared.

4. Press key in order to move on the field 1.1.2.22 – items name;
5. Press key in order to move in “editing” mode;
6. Enter the name of the item (“BREAD”) as the follows:

B ,

R , ,

E ,

A

D

7. Accept the writing by pressing **TOTAL**;

8. In order to program the price move to the next field by pressing the key ;
9. Enter the price;

Note: The position of the decimal point always is fixed and can not be programmed when the price field is changed.

10. To accept the new value, press **TOTAL**.

In similar way can be programmed the parameters stored in the other tables. It is obligatory the “tax group” parameter to has acceptable value.

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	Type of the service	0,3,4	0: Control of the store exit or the ECR serves only one stand. 3: Configured to work with a scale of type DATECS 4: Configured to work with a scale of type ANGEL or DIBAL Default: 0 Note: The ECR can manage a scale only if it has RS232 interface.
3	Reserved		
4	No passwords are used	0 or 1	0: The passwords usage is disabled 1: The passwords usage is enabled Default: 0
5	Function of the key PLC in REG mode	0 or 1	0: Sales by code (e.g. the row number) 1: Print a number Default: 0
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: 1
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	Sales by PC request in REG mode, programming between the receipts in REG mode	0,1,2,3	0: Disabled 1: Enabled programming between the receipts in REG mode. 2: Enabled sales by PC request in REG mode. 3: Enabled both 1 and 2 Default: 0 Note: This field is meaningful only when the value from filed 2 is set to 0
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: ОПЕРАТОРxx (e.g. OPERATORxx) (xx-the operators number)
2	Operators password	up to 8 digits	Default: same as the operators number.

Table 04 : Settings for the keys '%+' and '%-' in REG.

This table consist 2 rows – row No 1 for “%+” and row No 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 99.99%	Default: 0.00

Table 05 : Receipt format and copies, 1 row and 8 fields.

Field No	Description	Range	Note
1	Printing contrast	From 0 to 9	Default: 5
2	Reserved		
3	Expanded printing of the sales in the receipt	0 or 1	0: Disabled 1: Enabled Default: 0
4	Printing the taxes into receipt	0 or 1	0: Disabled 1: Enabled Default: 0
5	Expanded/Short electronic journal (in DP-50D - reserved)	0 or 1	0: Short 1: Expanded Default: 0
6	Separating total with blank lines	0 or 1	0: Disabled, 1: Enabled, Default: 1
7	Reserved		
8	Reserved		

Table 06 : Texts into receipt

This table consist 6 rows.

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 -the tax number of the tax obligated person	NOT PRESENTED
6	The first three symbols representing the name of the national currency, the second three represent the name of the alternative currency; the next eight symbols are the of the identification name of the tax obligated person.	LV EUR TAX#

Note: For DP-50D can be programmed and displayed (and printed) only the first 18 symbols of the rows of table 6.

Table 07 : Date and time , 1 row, 5 fields;

Field No	Description	Range	Note
1	Day	From 1 to 31	Default: DD
2	Month	From 1 to 12	Default: MM
3	Year	From 00 to 99	Default: YY
4	Hour	From 00 to 23	Default: 00
5	Minutes	From 00 to 59	Default: 00

Note: After entering a value in a field, it is needed the key "**TOTAL**" to be pressed. After the fields are modified, in order the clock-calendar to be actualized, it is needed the key "PLC" to be pressed, than a confirmation dialog appears. If the new date is allowable, but differ forward more than 1 day from the current date, a warning message appears on the display "PLEASE CHECK THE DATE". In this case, if the operator is sure, that he really wants to store into the clock the date entered, he must press the **TOTAL** key.

Table 08 : Setting up the alternative currency operations, 1 row, 4 fields; ,

Field No	Description	Range	Note
1	Printing the total in the receipt into alternative currency and its exchange rate in relation to the main currency	0 or 1	0:Disabled 1:Enabled Default: 0
2	Main currency (Look at table 6 row 6)	0 or 1	0:The main currency is the left one 1:The main currency is the right one Default: 0
3	Number of the integer digits into exchange rate	From 0 to 5	Default 1
4	Exchange rate of the alternative currency	up to 6 digits	Default:195583

MODE P2 - PROGRAMMING OF SPECIFIC PARAMETERS

The specific parameters are stored into fiscal memory. The fiscal memory programming should be made by the manufacturer or by authorized service! In order to set the fiscal memory in use after the ECR purchasing and its installing into a store, it is necessary a qualified specialist from authorized service to be called. This specialist must represent an authorized service, which has a service contract with DATECS and which has a service contract with the trade organization.

Table 03:Identification number of the tax obligated person (BULSTAT),
1 row,1 field;

Field No	Description	Range	Note
1	Identification number of the tax obligated person (BULSTAT)	13 symbols	Default: "NOT PRESENTED"

When starting to program this field, the cursor is stored on the left side.After each symbol entered, the cursor will moving on the right. The unused symbols should contain 'space'. When this field is printed, the spaces, included into the field are ignored.

Example:

The value entered: 123_4567890__
will be printed in the receipt as the follows: 1234567890

Note: If the default value of the identification number of the tax obligated person is not changed, this will not permit the setting of the fiscal memory into use. When fiscalization is made, the 9 - symbol BULSTAT code of the person (company) should be entered, also when are fiscalized devices of company sections. The BULSAT code of a physical person is 10-symbol and coincides with the personal number of that person.

Table 04: Tax groups , 1 row, 17 fields

Field No	Description	Range	Note
1	Enables tax group A	0 or 1	Default: 1
2	Enables tax group B	0 or 1	Default: 1
3	Enables tax group C	0 or 1	Default: 0
4	Enables tax group D	0 or 1	Default: 0
5	Enables tax group E	0 or 1	Default: 0
6	Enables tax group F	0 or 1	Default: 0
7	Enables tax group G	0 or 1	Default: 0
8	Enables tax group H	0 or 1	Default: 0
9	Percentage for tax group A	0.00 ÷ 99.99	Default: 00.00
10	Percentage for tax group B	0.00 ÷ 99.99	Default: 20.00
11	Percentage for tax group C	0.00 ÷ 99.99	Default: 0.00
12	Percentage for tax group D	0.00 ÷ 99.99	Default: 0.00
13	Percentage for tax group E	0.00 ÷ 99.99	Default: 0.00
14	Percentage for tax group F	0.00 ÷ 99.99	Default: 0.00
15	Percentage for tax group G	0.00 ÷ 99.99	Default: 0.00
16	Percentage for tax group H	0.00 ÷ 99.99	Default: 0.00
17	The price has digits after decimal point.	0 or 1	1: 2 digits after decimal point (0.00) 0: no digits after decimal point Default: 1

MODE P3 - SETTING UP THE FISCAL MEMORY IN USE

The specific parameters are stored into fiscal memory. The fiscal memory programming should be made by the manufacturer or by authorized service! In order to set the fiscal memory in use after the ECR purchasing and its installing into a store, it is necessary a qualified specialist from authorized service to be called. This specialist must represent an authorized service, which has a service contract with DATECS and which has a service contract with the trade organization.

MODE R - REGISTERING

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.



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

FUNCTION OF THE KEYS IN 'REGISTERING' MODE

Function keys

<p>keys G1, G2, G3, G4</p> <p>They allow to access items or item groups stored on the rows from 1 to 4 respectively into the item parameters table. The key pressing causes accumulation into the customer bill and also into the quantity and turnover registers of the item or item group given. The value entered before 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 an item to be sold, if the price is zero. This will cause alarm signal to be produced and error message "C" to be shown on the display.</p>
<p>PLU</p> <p>Specifies, that the previously entered number is a PLU-code of an item or item group. Causes an accumulation of the selected PLU into the customer bill. When the PLU-code is entered, the decimal point is ignored and the value entered is assumed as integer one.</p> <p>Note: If the price programmed is zero (or any of the item parameters is not allowable - for example the tax group) the operation will be refused and on the display an error message "C" appears, and sound alarm is produced.</p>
<p>PRC</p> <p>- 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 for an item or item group. First the price value is entered, than is pressed . Than the item code or item group code should be specified.</p> <p>- 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 press PRC in order to make a sale with the item which has such barcode.</p>
<p> - for DP-50 and DP-50D  - for MP-55B</p> <p>Specifies, that the value entered is a quantity. The decimal point position on the display is checked. 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>PLC</p>

When a number is entered and than the PLC key is pressed will cause:

- Sale of an item which has PLC code equal to the number entered -if the field 5 of table 1 is 0;
- Printing the number entered - if field 5 of table 1 is 1.

VD

1. With this key immediately after an item is accumulated a VOID (cancellation) of that sale is performed. The consecutively pressing of that key will cause consecutively cancellation of all sales in the receipt.

2. In order to cancel a sale which is not the last made(deep void), in an open receipt the following keys should be consecutively pressed:

Q'ty - for DP-50 and DP-50D X - for MP-55B

and

VD

than the sale parameters should be entered again. This operation can not be performed, if the sale parameters are not the same as in the sale to be cancelled.

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.

C

Annuls all digits entered before a functional key pressing. Annuls any error, caused by function key pressing. The errors are presented on the display by the error message "C".

STL

- If this key is pressed after a sale made, this will cause the subtotal of the customers bill to be shown on the display. If this key is pressed again, on the display will be shown the subtotal, calculated in alternative currency if the usage of this currency is enabled. These two modes are switched alternately.
- After pressing that key after entering a PLC - code of an item, on the display will be shown PLU-code, price and the firs 16 symbols of the item name.

TOTAL

Cause the customer bill to be closed and cause 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 money than needed - a partial paid is performed.

CRD - for DP-50 and DP-50D PY - for MP-55B

Main purpose:

The key is used for 3 types of payment.

- with cheque
- with coupon
- with alternative currency in DP-50 / DP-50D, if the usage of alternative currency is enabled.

First is entered the amount, which the customer gave. The key CRD is pressed. A dialog message appears:

1=CHK 2=KUP 3=EU

where

EU - the name of the alternative currency if its usage is enabled.

When the choice is made a payment is performed.

The number entered for alternative currency should be not less than the amount outstanding, calculated in this currency. If the customer pays more than the outstanding amount, a dialog message will appear for choosing the currency for change. The operator can show to the customer the outstanding amount by alternate

switching with the key .

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. The payment with alternative currency is always the last payment.

Additional function:

The key is used to start a receipt copy. For this purpose, the key must be pressed immediately after finishing the original receipt.

 1. The pressing of this key will cause adding a percentage surcharge to the amount of the last sale or if the key  is prior pressed - it adds percentage surcharge to the subtotal.

2. If there is no customer receipt open, this key able service entered amounts

This can be done by entering the amount value and pressing .

The percentage value can be in the range 00.00 to 99.99.

3. It able an item with a higher PLC-code and allowable tax group to be accessed (look at "Specific cases of operation in 'Registering' mode)

 1. The pressing of this key will cause subtracting of a percentage discount from the amount of the last sale or if the key  is prior pressed - it subtracts percentage discharge from the subtotal.

2. If there is no customer receipt open, this key able service amounts to be taken out. This can be done by entering the amount value and pressing .

The percentage value can be in the range 00.00 to 99.99.

3. It able an item with a lower PLC-code and allowable tax group to be accessed (look at "Specific cases of operation in 'Registering' mode)

Only for MP-55B



On the payment stage - after entering the amount, the pressing of this key is equal to payment with alternative currency similar to (CRD,3) which is already explained for DP-50 / DP-50D

When any of the working registers overflows, the operations are possible only after report and clearing of the ECR. If the multiplication result between quantity and price is more than ten digits, it is not the multiplication is not allowed and an error is indicated.

NUMERIC KEYS

In this mode the numeric keys are used mainly for entering the:

- Quantity of an item (valid decimal point)
- Price of item (valid decimal point)
- Code of an item (valid decimal point)
- Barcode value of an item (the decimal point is ignored)

SPECIFIC CASES OF OPERATION IN 'REGISTERING' MODE

Sale of an item using its barcode

By pressing the key **PRC** prior entering a digit, on the display appears message 'BARCODE', than the operator should enter the barcode of item desired. By pressing again the PRC key a sale is made with the item which has such barcode.

Sale of an item programmed after on the display are shown its name and price

The PLC-code of the item must be entered and after the key  should be pressed (instead the key PLC when the sale is initiated). On the display are shown the PLU-code, the price and the first 16 symbols of the name for the item selected.

The operator can moves on the item rows "forward" with the key  and "backward" with the key . If the operator wants to return back to the main registering mode without to make a sale with the item selected, he can do this by pressing , and if the operator wants to make the sale with the item selected - he should press the key .

Printing receipt copy

By pressing the key  - for DP-50 and DP-50D  - for MP-55B

After finishing a receipt in REG mode will cause a copy of this receipt to be printed. There is only 1 copy allowed. The copy has a label 'COPY' printed and contains all rows which the original receipt has.

Printing the total in alternative currency. (table 8 field 1)

When the field 1 from table 8 is set to 1, after the total amount is printed in each receipt are printed:

- The total amount converted into additional currency (for instance EUR);
- The exchange rate of the alternative currency in relation to the main currency;

The exchange rate of the alternative currency is set in field 4 of table 8, and the 3-symbols abbreviations of the two currencies (for instance BGL, EUR) are set in row 6 of table 6.

Expanded printing of sales into receipt

When in field 3 from table 5 a value 1 is set in the receipt for each sale of an item on separate rows are printed the item name, its single price, the sold quantity and the total amount of this sale.

MODE X - ECR REPORTS

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.

X
PASSWORD:-----

Enter numeric key sequence (the password), press **TOTAL**.

3 - On the display is shown:

X CRD PLC %+
 PLU TL STL

4 - Press a key:

PLU 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;

TOTAL Daily financial report
It includes:

- the turnovers and the tax debts for each tax group
- the turnovers divided by sales, surcharges and discharges
- the turnovers divided by payment types
- the turnovers from 'void'/'correction' operations

STL Report of the operators tax debts

X OPERATOR 1-30

On the display is shown:

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 report includes:

- The turnovers divided by sales, surcharges and discharges
- The turnover for each payment type
- the turnovers from 'void'/'correction' operations

From the mode "operators report" can be leaved by pressing 'Q'ty' if

the wish is to go in the main X mode menu or by pressing '<>' if the wish is to go in 'OFF' mode.

CRD/PY Reporting the items turnover

The report can be executed for all items (by pressing **TOTAL**) or selected range of items. 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. Using the keys %- and %+ you can move "forward" and "backward" over the table 1 rows. Pressing the key **TOTAL** starts the report printing from the first row to last in PLU database (row 1000).

If before pressing the key **TOTAL** an integer value n is entered, the report includes information for only n items with non-zero turnover. After finishing the report for initial item is set the first item with greater PLU code and non-zero turnover.

The report includes:

- The PLU-code;
- The row number;
- The name;
- The tax group identification;
- The sold quantity;
- The turnover for the item;

After finishing the report printing for the range selected, a new report can be chosen for another range. This mode can be leaved with the key 'Q'ty' to go in the main 'X' menu or with the key "<>" to exit into the 'OFF' mode.

PLC Reporting the programmed parameters of the items

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 a key PY.

All items parameters are printed for the selected number of items.

After finishing the report printing for the range selected, a new report can be chosen for another range. This mode can be leaved with the key 'Q'ty' to go in the main 'X' menu or with the key "<>" to exit into 'OFF' mode.

%+ Office report from the fiscal memory - it includes:

- The date and the time when the fiscal memory is entered into use.
- Block number, tax value of the enabled tax groups, decimal point position;

MODE Z – REPORTS WITH CLEARING

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.

Z
PASSWORD:-----

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

3 The display shows:

Z
G4 TL STL

4 Press key:

TOTAL

Daily report and clearing

They are reported and cleared:

- the turnovers and the tax debts for each tax group,
- the turnovers divided by sales, surcharges and discharges
- the turnovers divided by payment types
- the turnovers from 'void'/'correction' operations

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 items, departments and item groups are also cleared.

STL

Reporting and clearing the operators debts.

On the display is shown ' 1 – 30 '. The report can be executed for all operators (by pressing **TOTAL** only) or for separate operator by entering operators number and after pressing **TOTAL**.

In the report are included and after cleared:

- the turnovers by sales, surcharges and discharges
- the turnovers divided by payment types
- the turnovers from 'void'/'correction' operations

PLU

Reporting and clearing the turnovers and the quantities of the items and departments.

The turnovers for the departments and item groups are printed.

The turnovers of the items and item groups are cleared.

This report is available only when the field 2 from table 2 is set to 0.

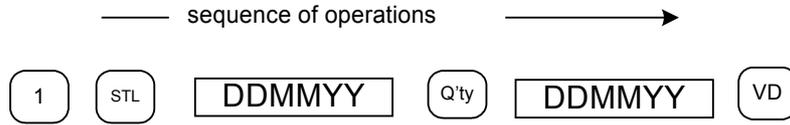
G4

Only for DP-50 and MP-55B: Printing and clearing the electronic journal. After the electronic journal is successfully printed - it is automatically cleared

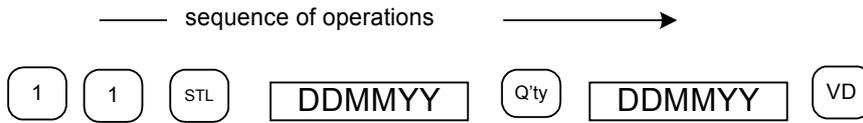
**REPORTS FROM THE FISCAL MEMORY
STANDATIZED**

The fiscal memory can be reported through the standard key sequences. For this purpose a X or Z mode must be accessed (according the written above). The following reports can be made for a fiscal memory blocks:

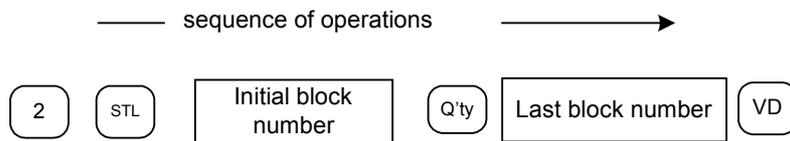
1.1. Detailed report of the fiscal memory for period determined by date to date.



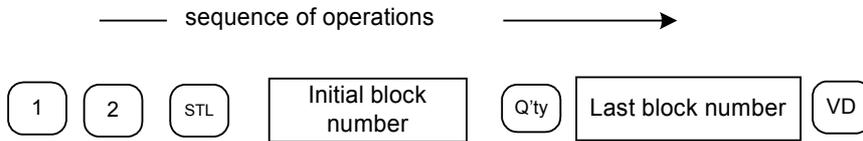
1.2. Short report of the fiscal memory for period determined by date to date.



1.3. Detailed report of the fiscal memory for period determined by block to block

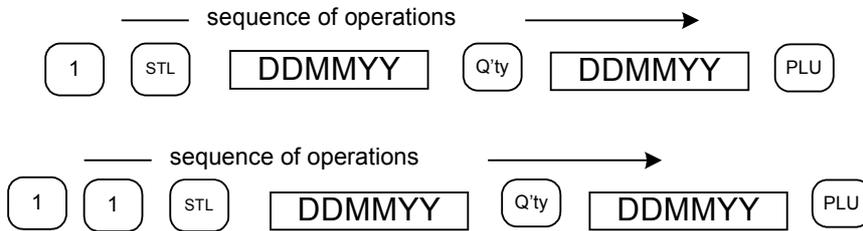


1.4. Short report of the fiscal memory for period determined by block to block

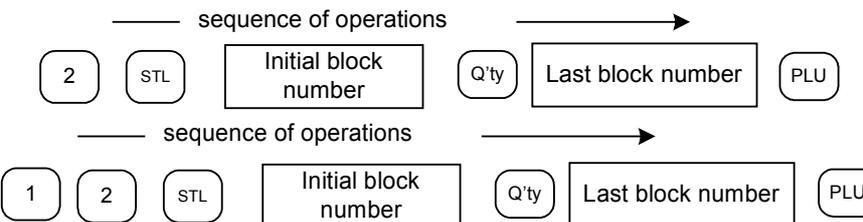


PERIODICAL REPORT OF THE TURNOVER BY TAX GROUPS

1.5. Report of the fiscal memory for period determined by date to date.



1.6. Report of the fiscal memory for period determined by block to block.



OTHER MODES

CONNECTION TO PC

From OFF state of the ECR with the key '7' go to state:
"FM READING" .

The speed of communication in this mode is determined by the value in field 8 of table 2.

CONTROL TESTS

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

TEST
0 1 - 8

The tests are activated with the keys from 1 to 8, 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:

- 1 - Printer test
 - 2 - Display test
 - 3 - Memory test
 - 4 - Keyboard test
 - 5 - Test - reading from the fiscal memory
 - 6 - Test - writing into the fiscal memory
 - 7 - 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.
 - 8 - Full fiscal memory test
 - 9 - The accumulator voltage level is shown
- TOTAL - printing parameters, which identify the ECR.
.- the tests 1 to 5 repeats any 10 minutes in a loop

PROGRAMMING AND REPORTING TO PC

From the ECRs OFF state, by pressing the key 9 you will access the state:

O F F - L I N E

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 3 field 8. For programming and reporting is used the application Ecr Tool or its analog.

DISPLAYING THE ACCUMULTOR LEVEL AND THE CURRENT DATE AND TIME

From the ECRs OFF state, after pressing the key "." for several seconds on the display the accumulator voltage will be shown, after on the display will appear the current date and hour.