digitron

ELECTRONIC CASH REGISTER
D110

USER MANUAL

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ELECTRONIC CASH REGISTER D110

- Universal – suitable to be used in all kinds of shops
- 13-digit 7-segment LCD display with a backlight (option – a customer display)
- Thermal printer (Seiko Instruments Inc.):
    - easy paper loading
    - printing rate – max. 60 mm/sec;
    - thermal paper, one-layer, width - 57 mm, external diameter – max. 42 mm;
    - characters per line – 32.
- Keyboard:
    - 12 digit keys;
    - 13 functional keys.
- Interfaces - USB, two RS232
- Memory card (2 GB) - Secure Digital Specification Standard (V2.0)
- Communication module – Wi-Fi or GPRS
- External adapter (9V, 4 A), input 220V(-15%,+10%), 50Hz
- Battery supply (option) – built-in rechargeable battery: (7.4V, 1800 mAh)
- Lithium battery supporting the real time clock.
- Dimensions (mm) – 192 x 86 x 58 (196 x 86 x 61 with a customer display)
- Weight (kg) ~ 0,370
- Operating temperature interval: -15° to 45° C

Functional characteristics:

- PLU database

- PLU barcodes and available quantities support

- Weight barcodes support – programmable identifier, zone type and length.

- 8 departments

- 10 operators in Registration mode and 4 passwords for the other four modes (X reports, Z reports, Programming, Service mode)

- 4 VAT groups and a Consumption tax

- 8 commodity groups with programmable names

- 10 units of measure with programmable names

- 3 types of payment – CASH and 2 payments with programmable names

- Programmable receipt header – 8 lines

- Programmable receipt footer – 2 lines

- Graphic logo printing – 384 x 144 pixels

- Discounts and mark-ups - percentage and value

- Registration of received on account and paid out amounts

- Registration of refunds

- Reports:
  - PLU/PLU groups report;
  - available quantities;
  - commodity groups report;
  - departments report;
  - tax groups report;
  - operators report;
  - sales report;
  - daily report;
  - periodic report.

- Printing of data, stored in the electronic journal

- Communication protocol between the ECR and a PC - supported

- Built-in tests

1. ECR CONFIGURATION

Paper compartment

Connector for the external adapter

USB port

RS232 port

ON/OFF button
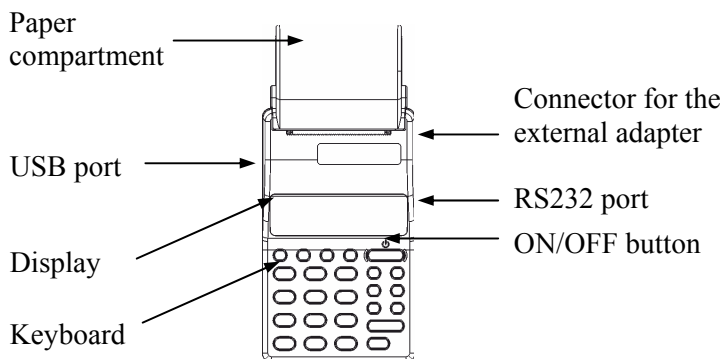
Display

Keyboard

1.1. Display

The ECR configuration includes one 13-digit 7-segments LCD display with a backlight. A customer display is an option.
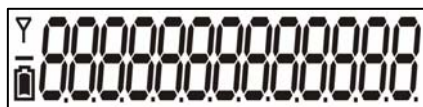
1.2. Keyboard

The keyboard includes 25 keys – 12 digit and 13 functional. The designation and position of the keys is the following:
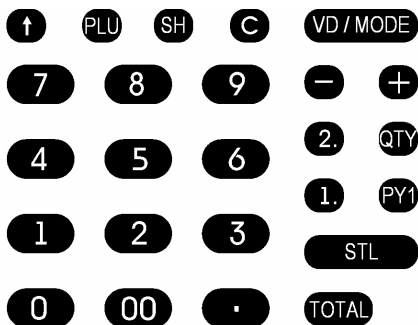
Note: Key combinations, using the key **SH**, are performed in the following way: the key **SH** is pressed first (a segment is lit up in the leftmost display position – above the battery icon), then another key is pressed.

1.3. Printer

The thermal printing mechanism prints 32 characters per line. The thermal paper

roll is 57 mm wide and up to 42 mm in diameter.

1.4. Power supply

The ECR is connected to the electric network (220V, 50 Hz) through its external adapter.

Option: A built-in rechargeable battery (7.4V, 1800 mAh).

If a rechargeable battery is included, the ECR is power supplied by the battery. It guarantees approximately 60 hours in operation mode and printing of approximately 40000 lines when it is fully charged. There is a special icon on the lower left corner of the display, which shows the battery charge status. If the battery sign is empty, the battery must be recharged. When the ECR is plugged in through its external adapter, the process of charging is indicated by the blinking battery icon. When recharging is completed, the battery icon stops blinking and the icon is black inside.

ATTENTION!

To avoid battery damage, the rechargeable battery should not be left discharged, even if the ECR is not used. Battery recharging must be performed at least once a month for a period of 8 hours, through connecting the original external adapter to the ECR and plugging in a 220V AC socket.

Only original batteries and adapters, specified by the ECR producer, must be used with the ECR. A risk of explosion exists, if an incorrect type is used to replace the original battery!

1.5. Switching the ECR on and off

The ECR is switched on and off, using the key `VD / MODE`. It must be pressed and held down, until the corresponding message:
‑ `On  rdY` ‑ or ‑ `OFF  rdY` ‑ is displayed.

2. PREPARATION FOR WORK AND SAFETY REQUIREMENTS

2.1. ECR installation and prevention

When the ECR is delivered and unpacked, it must be examined for eventual mechanical damages, for the integrity of the seal and the product completeness. The ECR must be protected from direct sun light, heat sources, strong electro-magnetic fields, high humidity, liquids and dust. The paper roll compartment and the adjacent area should be regularly cleaned with a slightly damp cloth. The ECR should be protected from mechanical damages.

During printing and for some time after printing, the printing head is very hot and should not be touched.

If some damage or malfunction of the ECR is detected, the ECR operations must be stopped, the ECR must be switched off and unplugged and a service technician must be called. Only authorized service technicians are permitted to repair the ECR.

Safety regulations, recycling regulations, electrical safety rules etc. must be strictly observed with regard to the ECR.

2.2. Placing the paper roll

Before starting operations with the ECR, the operator has to check the available paper roll in the ECR and place a new one, if necessary. The ECR has the advantage of easy paper loading. The cover of the paper compartment must be opened and the new paper roll must be placed. The paper tape must be pulled to come above the cutting edge and the cover of the paper compartment must be closed.

The key ⬆ is used for paper feeding. When a paper roll is used up, the printer operation is blocked. The ECR displays the corresponding error message: P End. Pressing any key is necessary after placing a new paper roll.

3. TERMINOLOGY

3.1. Operation modes

The ECR provides the following operation modes:

- Registration (1)
- X reports (2)
- Z reports (3)
- Programming (4)
- Service mode (5)

The access to each of the modes is enabled through entering the corresponding password.

3.2. Digital certificates

Each taxpayer, who will use an ECR to register sales, has to obtain digital certificates according to the Fiscal law and the requirements of the Tax administration in Croatia.

The digital certificates have to be uploaded in the ECR and the taxpayer personal identification number OIB has to be entered in the ECR memory too. These procedures, as well as configuring the ECR communication module for sending data to the Tax administration CIS, are performed in the ECR Service mode by an authorized service specialist.

3.3. Programming

This is a process of entering or changing the ECR parameters (names and prices of goods, tax rates, passwords, operators' names etc.).

3.4. Parameters

Most of the ECR parameters are organized in items and fields. The items are used for numbering of similar characteristics, for instance each article (PLU) is a different item in the PLU parameter. The fields are used for saving the different characteristics of one item, for instance the fields of an article are its name, price, tax group, available quantity etc.

3.5. Passwords and operators

The different ECR operation modes are accessed through entering a password, corresponding to each mode. 4 different passwords can be programmed (in parameter 11), corresponding to the modes: X reports, Z reports, Programming mode and Service mode. Operation of 10 operators is possible in Registration mode. Their names, passwords and ID number (OIB) are programmable (parameter 1). The operator passwords have to be different.

3.6. PLU and PLU groups

Each item of the PLU parameter is used for programming of one PLU or PLU group. The difference between a PLU and a PLU group is the following: free prices (entered at the moment of the sale) are enabled only for a PLU group. The number of PLUs and PLU groups depends on parameter 3, which determines the structure of the PLU database. Parameter 3 specifies the usage of bar codes and available quantities. When the user sets these options in the appropriate way, the actual PLU number is calculated and can be printed through **QTY**.

3.7. Printed documents

Before the ECR activation, the ECR operates in Training mode. All receipts and reports include the message "TRAINING RECEIPT"(TRENING RAČUN).
Note: Even after the ECR activation (performed in the Service mode), there is a possibility for training mode usage. An option in parameter 10, field 1 is used to enable the training mode in this case.
After the ECR activation, all the receipt and reports include the taxpayer OIB.
If a graphic logo is uploaded in the ECR memory, it is printed at the beginning of the receipts and reports.
A header message is printed in all receipts and reports. The header is programmable and includes up to 8 text lines for the owner's data: trade name, address etc.
The ECR provides the possibility for printing of a footer message (up to 2 lines) in the receipts and reports.
All receipts and reports include the date and time of printing, the current receipt number and the ECR identification number (Tv.Br.).

4. MODE SELECTION AND PASSWORD ENTERING

When the ECR is switched on, the display shows: i _ _ _ _ _ _. The leftmost position displays the mode and a password entering is expected. The following keys are accessible in that state:

VD / MODE	Used for going through the mode numbers. The modes are numerated, as follows: i – Registration 2 – X reports 3 – Z reports 4 – Programming 5 – Service mode
Digit keys	Used for password entering. An underscore appears with each newly entered digit.
C	Ignores the last entered digit and removes one underscore.
TOTAL	Ends the password entering. If the password is correct, the selected mode is entered. If the password is wrong, the ECR beeps and a new password entering is expected

5. PROGRAMMING
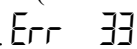
5.1. General principles

ECR programming provides defining the values of a number of parameters, most of which are organized in items and fields. Field values can be changed, examined and printed. Changing a value is done through:

- selection of a parameter, item and field numbers;
- entering a new value;
- saving the new value.

There are DIGITAL and CHARACTER fields, depending on the data, saved in them. In both cases data is entered through the digit keys, but ASCII codes of the characters have to be entered when programming character fields.
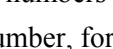
Besides the numbered parameters, the ECR provides changing the tax rates, entering the date and time and changing the currency exchange rate.

Note: With a view to keeping the ECR accounting, a parameter programming is enabled only if the related Z reports are completed. In case of necessity, the corresponding message is printed, for instance: "DAILY REPORT !!!"(DNEVNI IZVJEŠTAJ!!!), "OPERATORS REPORT!!!", "PLU REPORT !!!". $Err \quad 33$ is displayed when a report of one PLU is needed.

5.2. Operations on parameters in Programming mode

5.2.1. Entering a parameter number

The main menu in Programming mode (mode 4) is the menu "Parameters" – a parameter number is displayed at the leftmost position. When the Programming mode is entered, the number of the first parameter is displayed. Reaching a definite parameter number in "Parameters" menu is done through the keys ➕ and ➖, which provide the possibility for cyclic going through the consecutive parameter numbers in ascending and descending direction respectively.

Selecting a parameter is done through the key **TOTAL** when the parameter number is displayed at the leftmost position. When a parameter is selected, a submenu is entered. The numbers of the first field and first item are displayed next to the parameter number, for instance $2.\ 1\ 1$ (Parameter 2, field 1, item 1).

5.2.2. Entering an item number

It concerns parameters, including more than one item. There are three methods of reaching a definite item number:

- in the main menu – when the chosen parameter number is displayed – through entering the item number and pressing the key **TOTAL**. This is the way to enter the submenu "parameter item and field" - the number of the *first* field and the *entered item* number are displayed;
- in the submenu "parameter item and field" the keys **PY1** and **SH** **PY1**, provide the possibility for cyclic going through the consecutive item numbers in ascending and descending direction respectively;
- in the submenu "parameter item and field" - the item number is entered and the key **TOTAL** is pressed.

5.2.3. Entering a field number

It concerns items, including more than one field. There are two methods of reaching a definite field number in the submenu "parameter item and field":

- the keys **+** and **−** provide the possibility for cyclic going through the consecutive field numbers in an item, in ascending and descending direction respectively;
- direct entering the field number through the digit keys and pressing the key **STL**.

5.2.4. Printing of programmed parameters

Pressing the key **QTY** prints the corresponding parameter 2, 3, 4, 5, 8, 9, 15 or 16 in the "parameters" menu and the submenu "parameter item and field".
Pressing the key **PLU** prints an item, whose number is displayed in a submenu "parameter item and field". This possibility concerns parameters 1, 2 and 4.

5.2.5. Changing a field value

When the necessary field number is reached in the submenu "parameter item and field", the key **TOTAL** is necessary to be pressed first for selecting and entering into the field. If the item has not been programmed, the message "$rEC\ ---$" is displayed for a few seconds.

Data entering in a digital field

When a digital field is selected, the item number is displayed on the left, followed by the contents of the field. If the display positions are not enough, only the content is displayed.

The new content is entered using the digit keys. In case of an error, the key **C** has to be pressed so many times as necessary – each pressing clears one digit from the right to the left. If the key **C** is pressed and hold down, all the entered digits are cleared.

Data entering in a character field

When a character field is selected, the item number is displayed on the left, followed by the number of the first character and the ASCII code of the character. The ASCII codes of the characters are entered, using the digit keys. If an ASCII code includes a leading zero, it is obligatory to be entered. An automatic transition to the next character is done when 3 digits are entered (the displayed character number increases by 1).

Pressing the key **QTY**, when a character field is entered, prints the current text. Pressing the key combination **SH** **STL** when a character field is entered prints a table of the ASCII codes. A character code can be calculated through adding the column number to the number printed at the end of the row, where the character is printed.

ATTENTION! Pressing the key **00** in a character field clears its contents and performs positioning for entering the first character in the field.

Character codes:

Space - 032	0 – 048	A – 065	Q – 081	a – 097	q – 113	Š – 138
! – 033	1 – 049	B – 066	R – 082	b – 098	r – 114	Ž – 142
" – 034	2 – 050	C – 067	S – 083	c – 099	s – 115	š – 154
# – 035	3 – 051	D– 068	T – 084	d – 100	t – 116	ž – 158
$ – 036	4 – 052	E – 069	U – 085	e – 101	u – 117	Ć – 198
% –037	5 – 053	F – 070	V – 086	f – 102	v – 118	Č – 200
& – 038	6 – 054	G – 071	W – 087	g – 103	w – 119	Đ – 208
' – 039	7 – 055	H – 072	X– 088	h – 104	x – 120	ć – 230
(– 040	8 – 056	I – 073	Y – 089	i – 105	y – 121	č – 232
) – 041	9 – 057	J – 074	Z – 090	j – 106	z – 122	đ – 240
* – 042	: – 058	K – 075	[– 091	k – 107	{ – 123	
+ – 043	; – 059	L – 076	\ – 092	l – 108		– 124	
, – 044	< – 060	M – 077	] – 093	m – 109	}– 125	
- – 045	= – 061	N– 078	^ – 094	n – 110	~ – 126	
. – 046	> – 062	O – 079	_ – 095	o – 111		
/ – 047	? – 063	P – 080	` – 096	p – 112		
	@ – 064					

5.2.6. Data saving

Pressing the key ⬤ STL or TOTAL confirms and saves the newly entered data. The difference in the usage of these two keys is the following: after saving with TOTAL the ECR returns to the submenu "parameter field and item" and the next field number is displayed (the first field follows the last one); after saving with ⬤ STL the ECR keeps displaying the contents of the field – the key VD / MODE is pressed to exit the field.

The ECR beeps to show an error if an inadmissible value is attempted to be entered and saved.

5.2.7. Editing a character field

When a character field is selected, the keys ⊕ and ⊖ are used to reach the number of the character, that has to be changed. The correct code is entered. If there are other wrong characters in the same field (text), ⊕ and ⊖ are used again to reach a wrong code. When all necessary codes are entered correctly, the change is confirmed and saved through TOTAL or ⬤ STL .

5.2.8. Using a barcode scanner for saving a barcode

Barcode support is enabled through an option in parameter 3.

When parameter 2, field 6 (corresponds to a barcode) and the necessary item number are displayed in the submenu "parameter field and item", the key **TOTAL** is pressed first to select the field for entering the barcode.

If the selected item has not been programmed, "⌐EC ‐ ‐ ‐ " is displayed for a while. The barcode has to be scanned, using the barcode scanner, connected to the ECR. If the reading is correct "YES" is displayed. The correctness of the programmed barcode can be checked by printing the item through **PLU**.

Barcode digits can be entered manually and in this case pressing the key **TOTAL** is used to save the barcode.

5.2.9. Exit

The key **VD / MODE** is used for moving one level up in the Programming mode menus, as well as for exiting the mode.

5.3. Programming mode (4)

5.3.1. Parameters

Parameter 1: Operators

This parameter includes 10 items – one item for each operator (cashier)

Field No	Description	Contents	Notes
1	Operator name	Up to 28 characters	Default names – OPERATER
2	Operator password	Up to 6 digits	Default password of operator 1 – 0.
3	Operator personal identification number (OIB)	11 digits	Default contents of the field:---

Note: The operator OIB is obligatory to be entered in order that the operator can issue sales receipts. If the operator OIB is missing and a receipt is started, VOID ALL operation is automatically performed when payment is attempted.

Parameter 2: PLU and PLU groups

The number of items depends on parameter 3.

Note: The general options in Parameter 3 must be programmed before PLU/PLU groups programming (when parameter 3 is changed the whole PLU database is erased).

Field No	Description	Contents	Notes
1	Tax link or department link	From 101 to 108 - a link to a department from 1 to 8 From 001 to 008- a direct link to a tax group: 001 - A , 002 - B, 003 - C, 004 - D, 005 - A and consumption tax, 006 - B and consumption tax, 007 - C and consumption tax, 008 - D and consumption tax **101** by default (link to DP 1).	If a department link is specified, the tax of the department is applied to the PLU
2	Name	Up to 28 characters	
3	Price	Up to 99999999999.99	

4	Options
	- commodity group link;
	
	- PLU or PLU group
	
	- integer or fractional quantities
	
	- last sale in a receipt
		XXXX – PLU options – 4 digits
		┐│││
		 ││└ 1 – automatic receipt
		   closure
		  └─ 0 - integer quantities,
		   1 - fractional quantities;
		 └── 0 - PLU
		   1 - PLU group (enabled
		    "free" prices)
		└─── commodity group link –
		   from 1 to 8
		
		1010 by default
			When the option "PLU group" is set, free price registration is enabled for the item.

5	A link to a unit of measure	From 1 to 10 **1** by default (this unit of measure is blank and is not printed)	The unit name is in the corresponding item of parameter 9
6	Barcode	Up to 13 digits	It depends on an

			option in parameter 3. It can be entered manually or using a barcode scanner
7	Quantity in stock (available quantity)	Up to 999999.999 (fractional quantity) Up to 999999999 (integer qty) **0** by default (the quantity is not supported and checked)	It depends on an option in field 4 It depends on an option in parameter 3.
8	Quantity addition	The programmed value is added to the value in field 7	It depends on an option in parameter 3.
9	Max. amount	Up to 99999999999.99	0.00 by default - no limit

Note: If some value is programmed in field 9 (Max. amount), it is considered a limit, which should not be exceeded by the product of multiplying the quantity and the price of any sale, attached to this PLU.

Example: Programming a PLU- number 75, name -COCA-COLA; price 10.00; This PLU is linked to department 2 and to commodity group 3; integer quantity.

Operations   **Display**

                                                                                        4 _____

Enter the password (if programmed) and press **TOTAL**.
Parameter 1 is displayed.   1   0
Press ➕ to reach
the next parameter number   2   0
75 **TOTAL** goes directly to item 75, field 1of parameter 2   2.175   0
Press **TOTAL** to select the first field for programming.
If the item is not programmed yet, a message for an empty
record is displayed for a few seconds.   rEC - - -
Then the previous (if programmed) or the default value
of the field is displayed   75.101   0
101 shows a link to department 1

102 **TOTAL** - enters the new value and goes to the next

                field (PLU name)

└────── department 2

└──────── department link   *22.75   0*

Press **TOTAL** to select the field 2 for programming.   *01.000   0*

01 shows the number of the letter in the text, the other

3 digits show the ASCII code of this letter

Enter the following codes without any separators

067 079 067 065 045 067 079 076 065

The letter number increases with each code entering   *10.000   0*

Press **QTY** and the programmed name COCA-COLA is printed.

Press **TOTAL** to save the name and to move to the next field.   *23.75   0*

Press **TOTAL** to select the field for programming.

The previous price (if programmed) or the default value 0.00

is displayed   *75.000 000*

10 **·** **TOTAL** enters the new price 10.00 and goes to the

next field (options)   *24.75   0*

Press **TOTAL** to select the field for programming.

The previous options (if programmed) or the default 1010

are displayed.   *75.10.10   0*

3000 **TOTAL** enters the new options and goes to the next field

  │ │ └─ this is not a single transaction   *25.75   0*

  │ └── integer quantities

  └── a PLU (free prices are disabled)

  └──── commodity group 3

Press **PLU** to print the current item.

Press **VD/MODE** to go up to parameter 2.

Press **VD/MODE** to exit the programming mode.

Parameter 3: General options of the PLU database

This parameter includes only one item with one field.

Note: When any of these options is changed, the whole PLU database is erased. A confirmation or denial of the operation is required.

Field No	Description
1	XXX – General options - 3 digits (**010** by default - barcodes supported) └─ Reserved ; └─ using barcodes; └─ using available quantities (quantity in stock); 0 - the option is not applied; 1 - the option is applied to the PLU database**.**

Parameter 4: Departments

This parameter includes 8 items – one item for each department.

Field No	Description	Contents	Notes
1	Tax group link	1 to 8 - a link to a tax group: 1 - A , 2 - B, 3 - C, 4 - D, 5 - A and consumption tax, 6 - B and consumption tax, 7 - C and consumption tax, 8 - D and consumption tax	

2	Options:
	 - commodity group;
	 - free prices disabled;
	 - integer or fractional quantities;
	 - last sale in a receipt.
		XXXX - Options – 4 digits
		 └ 1-last sale in a receipt;
		 └─ 0-integer quantities,
		     1-fractional quantities;
		 └─ 1-disabled free prices;
		 └─ a link to a commodity
		     group from 1 to 8
		
		 1010 by default
			After a "last sale" department is registered, the current receipt is automatically closed through a cash payment

3	Name	Up to 28 characters	Default names **ODJEL 01**... **ODJEL 08**
4	Price	Up to 99999999999.99	

5	A link to a unit of measure	From 1 to 10 **1** by default (this unit of measure is blank and it is not printed)	The measure unit name is in the corresponding item of parameter 9
6	Max. sale amount	Up to 99999999999.99	0.00 by default - no limit
7	Max. receipt amount	Up to 99999999999.99	0.00 by default - no limit

Note: The Max.sale amount is a limit, which should not be exceeded by the product of multiplying the quantity and the price of a sale, attached to this department

Note: The Max. receipt amount is a limit, which should not be exceeded by the amount of a receipt, when a sale is registered in the corresponding department.

Parameter 5: Advertisement text

This parameter includes 10 items. Items from 1 to 8 correspond to the header message. Items 9 and 10 correspond to the footer message.

Field No	Description	Contents	Notes
1	Text	32 characters	Each text line is centred when printed
2	Quick erasing the text in the item	Pressing the key **TOTAL** clears the text line	If the first line is empty, both lines are not printed.

Note: The first line of the header includes 16 characters, which are printed double wide.

Parameter 8: Payment names

This parameter includes 2 items corresponding to the programmable payment names.

Note: Cash payment is not programmable. It is always available.

Item No	Description	Contents	Notes
1	Name of the first payment	Up to 28 characters	**KARTICA** by default. This type of payment corresponds to **PY1** in Registration mode.
2	Name of the second payment	Up to 28 characters	**DOPUNSKA VALUTA** by default. This type of payment corresponds to **SH** **PY1** in Registration mode.

Parameter 9: Names of units of measure

This parameter includes 10 items – one item for each unit of measure.

Item No	Description	Contents	Notes
1	Name of 1st unit	Up to 4 characters	The default name is empty
2	Name of 2nd unit	Up to 4 characters	The default name is **kg**
3	Name of 3rd unit	Up to 4 characters	The default name is **g**
4	Name of 4th unit	Up to 4 characters	The default name is **m**
5	Name of 5th unit	Up to 4 characters	The default name is **m2**
6	Name of 6th unit	Up to 4 characters	The default name is **m3**
7	Name of 7th unit	Up to 4 characters	The default name is **l**
8	Name of 8th unit	Up to 4 characters	The default name is **t**
9	Name of 9th unit	Up to 4 characters	The default name is **kWh**
10	Name of 10th unit	Up to 4 characters	The default name is **kom.**

Parameter 10: System options

Field No	Description	Contents
1	XXXX – Options - 4 digits └ Operators report is reset by the daily Z report ── Disabled training mode after ECR activation ── Printing of empty registers in the reports ──── Reserved	0 - the option is not applied 1 - the option is applied See the note below the table.
2	Percentage mark-up	Up to 99.99
3	Percentage discount	Up to 99.99
4	Number of the ECR in the store	2 digits
7	XXXXX – Options – 5 digits └ Reserved ── Contrast (0 to 9) ── Printing quality and speed ── Printing of a graphic logo (0 - no , 1 - yes) ──── Printing of tax details at the end of the receipt (1 - no , 0 - yes)	Printing quality and speed: 0 – high-quality printing, greater consumption; 1 – fast printing, lower power consumption.
8	Connection settings: types of the peripheral devices	

	and communication speeds. **Item 1 –** First **RS232 settings** Device type: 01 – no external device; 02 – PC; 03 – electronic scales "BIMKO"; 04 – electronic scales „MERCURY" (by default) 05 – electronic scales "ELIT"; 06 – electronic scales "MARTE V4" **Item 2 – USB settings** Device type: 01- no device; 09-a PC **Item 3 –** Second **RS232 settings** Device type: 01- no device; 16-a barcode scanner	
9	Reserved	

Note: After the ECR activation, there is still a possibility for **training mode** usage. The corresponding option is the second digit (from the right to the left) in **field 1** of parameter 10. All Z reports (daily, periodic, operators, groups and PLU) must be issued before changing the option value. The default option value is 1 - the training mode is disabled after the ECR activation. If the value is changed to 0, the ECR operates in training mode.

Note: When **field 8** is entered, the type of device is displayed on the left side and the communication speed is displayed on the right side, for instance $\Box\mathsf{Y}$ - $\mathsf{Y}\Box\Box\Box$. (04 is the device type, 4800 is the communication speed). When entering new contents, the speed is entered first and then the type of device, for instance 960004 TOTAL (speed - 9600, device - 04).

Parameter 11: Passwords

This parameter includes 1 item with 4 fields – each field contains a password for a different mode.

Field No	Description	Contents
1	Password for X reports (mode ᄅ)	6 digits - **0** by default
2	Password for Z reports (mode ㅋ)	6 digits - **0** by default
3	Password for Programming mode(mode ㅂ)	6 digits - **0** by default
4	Password for Service mode (mode �585)	6 digits - **0** by default

Parameter 12: Weight barcode options

This parameter includes 1 item with 3 fields.

Field No	Description	Contents	Notes
1	Options of the left barcode zone	2 digits	The left digit is 0(weight) or 1(PLU number). The right digit shows the zone length
2	Options of the right barcode zone	2 digits	The left digit is 0(weight) or 1(PLU number). The right digit shows the zone length.
3	Weight barcode identifier	2 digits	These are the first 2 digits of the barcode

Example:　　**Field 1** = 05 of **Parameter 12**

　　　　　　　└ 5 digits for the weight

　　　　　　└── the left zone is reserved for the weight

　　　　　　Field 2 = 15

　　　　　　　└ 5 digits for the PLU number

　　　　　　└── the right zone is reserved for PLU number

　　　　　Field 3 = 28 – this is the identifier of the weight barcode (the 2

　　　　　　　　　leftmost digits)

　　Weight barcode:　281023401667X

　　　　　　　　　　　　　└ check sum

　　　　　　　　　　　└─── right zone - PLU number - 1667

　　　　　　　　　　└──── left zone – weight 10,234 kg

　　　　　　　　　└───── identifier

Parameter 14: Backlight options

This parameter includes only 1 item and 1 field.

Field No	Description
1	Backlight options - 3 digits. **013 by default -** the leftmost digit is 0, the backlight is constantly switched off. If the leftmost digit is 1, the backlight is switched on when any ECR key is pressed. The other two digits correspond to a period in seconds. When they elapse and no key is pressed meanwhile, the backlight is switched off

Note: The key combination 🆂🅷 8️⃣ , regardless of parameter 14 contents, can be used for switching the backlight on and off.

Parameter 15: Currencies

This parameter includes 2 items - one item for the basic currency and one item for the additional currency.

Field No	Description	Contents
1	Decimal point position	0 or 2; the default is 2 – two digits after the decimal point
2	Currency name	**kn** – in the first item **euro** – in the second item
3	Applying the exchange rate with **payment 2**	1 – the exchange rate is applied (by default) 0 – the exchange rate is not applied. The option is common for both items.

Parameter 16: Commodity groups

This parameter includes 8 items - one item for each commodity group.

Field No	Description	Contents
1	Commodity group option	0 – disabled, 1 – enabled
2	Commodity group name	Up to 28 characters GRUPA ARTIKLA 1 … GRUPA ARTIKLA 8 by default

Note: All commodity groups are disabled by default

5.3.2. Changing the tax rates

The operation is started by pressing the keys **SH** **+**. The first VAT group is displayed: 1.X.XX. The keys **+** and **−** are used for cyclic going through the tax rates. When a tax rate number is reached and displayed, a new value is entered through the digit keys. Pressing of **STL** confirms the change. The numbers from 1 to 4 correspond to tax rates from A to D respectively. Tax group 5 corresponds to the consumption tax (PNP).

After entering all the new rates, **TOTAL** has to be pressed for finishing the operation.

5.3.3. Changing the exchange rate

The default exchange rate **kn/euro** is 7.53943.

The operation for changing the rate is started by pressing the keys **SH** **PLU**. CH is displayed.

The new exchange rate **kn/euro** is entered and **STL** is pressed to confirm it. The newly entered exchange rate and the calculated rate **euro/kn** are both printed.

Note: The names **kn** and **euro** are programmable in parameter 15.

Note: Applying the exchange rate can be disabled through field 3 of parameter 15.

5.3.4. Changing the date and the time

The operation is started by pressing the keys **SH** **TOTAL**. The current date is displayed. The key **−** is pressed for changing the date. The message dRtE is displayed. The date is entered DDMMYY and **STL** is pressed. The key **+** is pressed for changing the time.The message t is displayed. The time is entered HHMM and **STL** is pressed. If the ECR prints a message about additional confirmation, the key **STL** has to be pressed. **TOTAL** is pressed to end the operation.

6. REGISTRATION MODE

This mode is provided for sales registration, as well as for registration of received on account and paid out sums. Pressing the keys **SH** **VD/MODE**, when no client's receipt is opened, exits the mode.

Note: An operator OIB is obligatory to be entered in advance in Programming mode (parameter 1, field 3) in order that the operator can issue sales receipts.

The functional keys are used for the following operations in Registration mode:

QTY	- quantity entering;
PLU	- entering a PLU number; repeating a PLU registration;
SH **PLU**	- entering PLU free prices;
1.	- sales registration in department 1;
2.	- sales registration in department 2;
SH **1.**	- sales registration in department 3;
SH **2.**	- sales registration in department 4;
+	- percentage mark-up; received on account sums;
−	- percentage discount; paid out sums; refund;
SH **+**	- value mark-up;
SH **−**	- value discount;
VD/MODE	- correction of a wrong registration in a receipt; when the current date is displayed through **PY1**, the current time is displayed through **VD/MODE**;
C	- clears the display; if digits are entered, **C** clears the rightmost digit on the display. If the key **C** is pressed and hold down, all the entered digits are cleared.
SH **00**	- void all in a receipt; sending of unsigned receipts to the Tax administration CIS
STL	- subtotal of the client's receipt;
TOTAL	- cash payment;
PY1	- payment 1; date display;
SH **PY1**	- payment 2;
SH **QTY**	- printing a receipt copy;
SH **VD/MODE**	- exit out of the mode;

6.1. Date and time display

When no receipt is opened, the current date and time can be displayed by pressing the key (PY1). The current date is displayed DD_MM_YY. Pressing the key (VD/MODE) after that, displays the current time HH–MM–SS. Pressing the key (C) quits the operation.

6.2. Registration
6.2.1. Registration of a PLU and a PLU group

Registration of a PLU/or PLU group/ programmed price is done through entering its number and pressing the key (PLU).

If a PLU has a programmed barcode (up to 13 digits), its registration can be done through entering the barcode number and pressing the key (PLU). Entering the barcode can be done using a barcode scanner and in this case (PLU) is not pressed at the end.

Registration of a free price in a PLU group is done through consecutive entering the price, pressing the keys (SH) (PLU), entering the PLU group number and pressing the key (PLU).

135 (PLU) `Cokolada   1   × 12.00 = 12.00 A` — Programmed name, unit price, quantity, total price and VAT of a PLU

8 (•) 5 (SH) (PLU) 29 (PLU) `Prirodni sok 1   × 8.50 = 8.50 A` — Registration of a free price in a PLU group

6.2.2. Registration in departments

If a department has a programmed price, registration of that price is done through direct pressing the corresponding key (1.) or (2.) for departments 1 or 2 respectively or the key combination (SH) (1.) or (SH) (2.) for departments 3 or 4 respectively.

Free price registration in a department is done through entering the price (using the digit keys) and selecting a department in the above-described way.

(1.) `KRUH       1   × 6.00 = 6.00 C` — Name, programmed price, quantity, total price and VAT of a department

6 (•) 5 (1.) `KRUH       1   × 6.50 = 6.50 C`

(SH) (2.) `ODJEL 04  1   × 13.00 = 13.00 A` — Name, free price, quantity, total price and VAT of a department

12 (•) 1 (SH) (2.) `ODJEL 04  1   × 12.10 = 12.10 A`

6.2.3. Registration of quantity

The quantity is entered first, the key **QTY** is pressed and then the registration proceeds in some of the above-described ways of registration. When entering quantities, the programmed options for fractional or integer quantities have to be considered. The product of multiplying the quantity and the price is displayed.

1 **.** 25 **QTY** 52 **PLU** | Jabuke 1.250 kg × 9.00 = 11.25 A | — The programmed name, quantity, measure unit, unit price, sale amount and VAT of PLU 52

3 **.** **QTY**
9 **.** **2.** | BEZALKOHOLNA PICA 3 × 9.00 = 27.00 A | — Department name
— Quantity, free price, sale amount and VAT designation

6.2.4. Repeated registration of a PLU/PLU group

Pressing the key **PLU** right after a PLU registration/ PLU group registration in an open receipt (before payment is started), repeats the previous registration and the quantity is the same as in the previous registration.

6.2.5. Repeated registration of a department sale

Pressing a department key right after a department registration through the same department key, in an open receipt (before payment is started), repeats the previous registration and the quantity is the same as in the previous registration.

6.3. Displaying and printing the subtotal

Displaying and printing the subtotal amount of a client receipt is done through the key **STL** before a payment operation is registered in the current receipt. Pressing the key combination **SH** **STL** prints the subtotal amount, recalculated in the additional currency (euro for instance), using the programmed exchange rate(see item 5.3.3).

6.4. Discounts and mark-ups

Discounts and mark-ups can refer to a single registration or to a subtotal amount. The latter case requires pressing the key **STL** in advance. A mark-up/discount/, referring to a single registration is added to/subtracted from/ the tax group registers, corresponding to the registration itself. If a subtotal includes sums

of different taxes, a mark-up/discount referring to this subtotal is distributed proportionally in the tax groups registers.

6.4.1. Percentage discounts and mark-ups

A percentage mark-up/discount can be registered immediately after a registration or a subtotal, through entering the percentage value (up to 99.99) and pressing the keys ➕ and ➖ respectively. If there is a programmed percentage mark-up/discount (parameter 10, fields 2 and 3 respectively), it can be used by direct pressing the key ➕ or ➖ respectively.
The value of the discount/mark-up is calculated, printed and displayed.

6 **.** **QTY** 135 **PLU**
➖

```
Čokolada    6   x 12.00 = 72.00 A
-10.00 % popusta           -7.20 A
```
10% discount is programmed in advance (Param.10)

STL
5 **.** ➕

```
ODJEL 03    1   x 20.00 = 20.00 A
ODJEL 04    1   x 30.00 = 30.00 B
MEĐU ZBROJ               50.00
- - - - - - - - - - - - - - - -
5.00 % marža              2.50
IZNOS PDV A               1.00
IZNOS PDV B               1.50
```
Percentage mark-up on a subtotal and its distribution in tax groups

6.4.2. Value discounts and mark-ups

A value discount/mark-up can be registered immediately after a registration or a subtotal, through entering the value and pressing the key combination **SH** ➖ or **SH** ➕ respectively. The discount/mark-up is printed and displayed.
A value discount is not permitted to exceed the value of the corresponding registration or subtotal.

10 **.** **QTY**
9 **.** 5 **SH** **1.**
5 **.** **SH** ➖

```
ODJEL 03   10   x 9.50 = 95.00 A
POPUST                    -5.00 A
```
Value discount on a separate registration

```
ODJEL 03   1   x 20.00 = 20.00 A
ODJEL 04   1   x 40.00 = 40.00 B
MEĐU ZBROJ              60.00
- - - - - - - - - - - - - - - -
MARŽA                    6.00
IZNOS PDU A              2.00
IZNOS PDU B              4.00
```

6 **·** **SH** **+**

STL

Value mark-up on
a subtotal and its
distribution in tax
groups

6.5. Correction of a wrong registration

Correction of a wrong registration is possible within the range of an open client
receipt, on condition that no payment has been started.

The correcting operation is started by pressing the key **VD/MODE**. The ECR
displays the latest registration (a sale, mark-up or discount). Pressing the keys **+**
and **−** provides the possibility for consecutive going through and displaying all
the registrations in the receipt. The operation can be still rejected through pressing
the key **C**.

Pressing the key **VD/MODE**, when the correction has been started, completes and
prints the correction of the registration, displayed at that moment. If a registration,
followed by a mark-up or discount is corrected, the mark-up or discount is also
automatically corrected.

Printing the correction ends the operation. If any other correction is necessary, the
operation has to be started again.

Note: If the display capacity is not enough for displaying both the quantity and
the price, when sales are browsed through the keys **+** and **−**, only the price is
displayed.

1 **·** 25 **QTY** 52 **PLU**

3 **·** **QTY** 12 **·** **SH** **1.**

VD/MODE `3.000    12.00`

− `1.250    9.00` **VD/MODE**

```
Jabuke 1.250 kg x 9.00 = 11.25 A
ODJEL 03   3   x 12.00 = 36.00 A
! ISPRAVKA !
Jabuke
     -1.250 kg x 9.00 = -11.25 A
```

6.6. Void all

Pressing the key combination **SH** **00** in an open receipt cancels all the registrations in the receipt, the receipt is closed and the amount is 0.00.

Registrations in the receipt

SH **00**

```
DIGITRON d.o.o.
    DIGITRONSKA 33. 52460 BUJE
       *OIB: 84493255348
0001 OPERATER 27308299306      1
- - - - - - - - - - - - - - - - -
ODJEL 03   1   x 10.00 = 10.00 A
ODJEL 04   1   x 20.00 = 20.00 B
       IZBRISI  SVE
- - - - - - - - - - - - - - - - -
POSL101/002600210    00 ARTIKALA
03-12-12                   17:04
- - - - - - - - - - - - - - - - -
Tv.Br:                   I9000101
```

6.7. Payment and receipt closure

Pressing the key **TOTAL** in an open client receipt closes it through a cash payment. Besides the cash payment, the ECR provides two other types of payment with programmable names (parameter 8), as well as a combined way of payment in a receipt. The first kind of payment corresponds to the key **PY1**, the second – to **SH** **PY1**.

An amount entering is admissible before pressing a payment key. If the entered amount is greater or equal to the unpaid amount of the client receipt, the receipt is closed; the entered amount and the calculated change are printed.

If the entered amount is less than the unpaid amount of the client receipt, the entered amount is printed and further payment operations are expected.

An exemplary receipt:

digitron

```
DIGITRON d.o.o.
  DIGITRONSKA 33. 52460 BUJE
     *OIB: 84493255348
0001 OPERATER 27308299306      1
- - - - - - - - - - - - - - - - - -
ODJEL 04   1   x 20.00 = 20.00 B
ODJEL 03   1   x 30.00 = 30.00 A
UKUPNO  kn      50.00

REKAPITULACIJA POREZA:
A=25.00%
OSNOVICA                   23.44
PDV                         5.86
B=10.00%
OSNOVICA                   17.70
PDV                         1.77
PNP=3.00%                   1.23
- - - - - - - - - - - - - - - - - -
GOTOVINA                   50.00
- - - - - - - - - - - - - - - - - -
POSL201/002600212     02 ARTIKALA
03-12-12                   17:06
- - - - - - - - - - - - - - - - - -
ZASTITNI KOD:
279867d60bf4809657b541647bcf53d0
JIR:                    6421b002
    -9119-4034-8b9f-17b6d4bd091f
- - - - - - - - - - - - - - - - - -
Tv.Br:                  I9000102
```

Graphic logo

User's data (receipt header)
Taxpayer identification number

Number of the ECR in the shop, the operator name, the operator OIB and operator number

Total amount of the receipt

Distribution of amounts in tax groups, calculated VAT, calculated consumption tax

Payment

Receipt No and number of items in the receipt

Date and time of the receipt

A protection code of the receipt, generated by the ECR

Receipt ID sent by the CIS of the Tax Administration

ECR identification number

Registrations in the receipt

TOTAL

An example of change calculation:

40 ·

TOTAL

```
ODJEL 03   2   x 18.99 = 37.98 A
UKUPNO  kn      37.98
- - - - - - - - - - - - - - - - - -
REKAPITULACIJA POREZA:
A=25.00%
OSNOVICA                   30.38
PDV                         7.60
- - - - - - - - - - - - - - - - - -
GOTOVINA                   40.00
OSTATAK                     2.02
```

Total amount of the receipt

Amount, given by the client

Change, calculated by the ECR

An example of different payment types in a receipt:

```
UKUPNO kn
                1080.00
- - - - - - - - - - - - - - -
REKAPITULACIJA POREZA:
B=10.00%
OSNOVICA                 981.82
PDU                       98.18
- - - - - - - - - - - - - - -
KARTICA                 1000.00
GOTOVINA                   80.00
```

1000 [·] [PY1]
    [TOTAL]

An example of payment in additional currency:
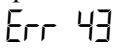
```
UKUPNO kn 200.00
- - - - - - - - - - - - - - -
REKAPITULACIJA POREZA:
A=25.00%
OSNOVICA                 160.00
PDU                       40.00
- - - - - - - - - - - - - - -
DOPUNSKA VALUTA      20.00 euro
KURS:          7.53943 kn/euro
OSNOVANA VALUTA     150.79 kn
GOTOVINA                  49.21
```

20 [·] [SH] [PY1]
    [TOTAL]

6.8. Data interchange with the Tax administration CIS

At the end of each sales receipt, when payment operations are finished, the ECR sends through its communication module the required data to the Tax administration CIS. Moving dashes appear on the ECR display during the process of communication. If the data interchange is successful, the received Receipt ID (JIR) is printed in the receipt. If it is not successful, the receipt is printed without a JIR – it is an unsigned receipt. As soon as an unsigned receipt is issued, the ECR starts to beep at 5 second intervals and the antenna icon on the display is visualized.

The procedure of sending all the unsigned receipt can be started in the Registration mode, when no receipt is open at the moment. Sending is started through pressing the keys [SH] [00]. If the data interchange is successful, each of the successfully signed receipts is printed, including the JIR. If 48 hours elapse since issuing the first unsigned receipt, the ECR displays the error message Err 43 and no new receipts can be issued until the unsigned ones are successfully signed.

6.9. Refund

A refund operation is permitted in a separate client receipt, on condition that there is enough cash for refund. A refund operation is started through the key ⊖. A minus sign is displayed. Then a refund can be registered in the same way as an ordinary registration. After the first registration in a refund receipt, the header message is printed. Once a refund receipt is opened, other refund amounts can be registered in it. The receipt is closed through cash payment, using the key TOTAL.

An example of a refund receipt:

30 · SH 1.
TOTAL

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
        *OIB: 84493255348
0001 OPERATER 27308299306      1
         STORNO DOKUMENTA
- - - - - - - - - - - - - - - -
ODJEL 03 -1   x 30.00 = -30.00 A
UKUPNO  kn  -30.00
- - - - - - - - - - - - - - - -
REKAPITULACIJA POREZA:
A=25.00%
OSNOVICA                  -24.00
PDV                        -6.00
- - - - - - - - - - - - - - - -
GOTOVINA                  -30.00
- - - - - - - - - - - - - - - -
POSL101/002600217    01 ARTIKAL
03-12-12                   17:10
- - - - - - - - - - - - - - - -
ZASTITNI KOD:
bbc47ec0ba38943833740319F0Fc51d9
JIR:                     09c4aaf2
    -a08b-4db0-bb0b-51d4ed9015ab
- - - - - - - - - - - - - - - -
Tv.Br:                   I9000101
```

— Refund receipt title

6.10. Printing a receipt copy

Only one receipt copy can be printed. This function is performed through pressing the keys **SH** **QTY** directly after the original receipt. The copy receipts include the message COPY (KOPIJA), printed using double wide characters.

Printing of receipt copies concerns both sale receipts and refund receipts.

An example of a sale receipt and its copy:

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
       *OIB: 84493255348
0001 OPERATER 27308299306        1
- - - - - - - - - - - - - - - -
ODJEL 04   1   x 20.00 = 20.00 B
ODJEL 03   1   x 30.00 = 30.00 A
UKUPNO  kn    50.00

REKAPITULACIJA POREZA:
A=25.00%
OSNOVICA                    24.00
PDV                          6.00
B=10.00%
OSNOVICA                    18.18
PDV                          1.82
- - - - - - - - - - - - - - - -
GOTOVINA                    50.00
- - - - - - - - - - - - - - - -
POSL101/002600212     02 ARTIKALA
03-12-12                    17:06
- - - - - - - - - - - - - - - -
ZASTITNI KOD:
279867d60bf4809657b541647bcf53d0
JIR:                     6421b002
    -9119-4034-8b9f-17b6d4bd091f
- - - - - - - - - - - - - - - -
Tv.Br:                   I9000101
```

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
       *OIB: 84493255348
- - - - - - - - - - - - - - - -
           KOPIJA
0001 OPERATER 27308299306        1
- - - - - - - - - - - - - - - -
ODJEL 04   1   x 20.00 = 20.00 B
ODJEL 03   1   x 30.00 = 30.00 A
UKUPNO  kn    50.00
- - - - - - - - - - - - - - - -
REKAPITULACIJA POREZA:
A=25.00%
OSNOVICA                    24.00
PDV                          6.00
B=10.00%
OSNOVICA                    18.18
PDV                          1.82
- - - - - - - - - - - - - - - -
GOTOVINA                    50.00
- - - - - - - - - - - - - - - -
BROJ RACUNA:   POSL101/002600213
03-12-12                    17:06
- - - - - - - - - - - - - - - -
Tv.Br:                   I9000101
```

6.11. Received on account and paid-out amounts

Received on account and paid-out amounts can be registered when no client receipt is opened at the moment. The amount is entered and the key ➕ or ➖ respectively is pressed.

40 ⬤ ➕

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
        *OIB: 84493255348
0001 OPERATER 27308299306        1
- - - - - - - - - - - - - - - -
POLOG                        40.00
BROJ RACUNA:    POSL201/002600214
03-12-12                     10:08
- - - - - - - - - - - - - - - -
Tv.Br:                    I9000102
```

100 ⬤ ➖

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
        *OIB: 84493255348
0001 OPERATER 27308299306        1
- - - - - - - - - - - - - - - -
ISPLATA                     100.00
BROJ RACUNA:    POSL201/002600245
03-12-12                     17:18
- - - - - - - - - - - - - - - -
Tv.Br:                    I9000102
```

7. REPORTS

The ECR supports two report modes: 2 and 3. Report mode 2 is for X reports, while Report mode 3 is for Z reports generally. Some of the reports are only X reports regardless of the mode.

PLU	- Report of PLU and PLU groups;
SH **PLU**	- Report of PLUs in stock (available quantities);
—	- Commodity groups report;
QTY	- Tax report;
PY1	- Sales report;
SH **PY1**	- Departments report;
+	- Operators report;
1., **2.**	- Report of the corresponding department 1 or 2;
SH **1.**, **SH** **2.**	- Report of the corresponding department 3 or 4;
TOTAL	- Daily report
SH **TOTAL**	- Periodic report
SH **VD / MODE**	- Exit out of the mode

Note: Some of the reports require additional confirmation of the Z report type. A prompting message $\complement \quad \boxed{00}$ is displayed. The key **C** corresponds to the X report type, while the key **00** corresponds to Z report type.

7.1. Reports of PLU and PLU groups

7.1.1. Report of one PLU/ PLU group

The PLU or PLU group number is entered and the key **PLU** is pressed.

7.1.2. Report of all PLU and PLU groups

This report is selected through pressing the key **PLU**.

PLU

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
       *OIB: 84493255348
     IZVJESTAJ PO ARTIKLIMA
- - - - - - - - - - - - - - - - -
#00016 Bijeli kruh
ODJEL                        KRUH
KOLICINA                   31.000
CIJENA                       6.10
IZNOS                      189.10
- - - - - - - - - - - - - - - - -
#00017 Raženi kruh
ODJEL                        KRUH
KOLICINA                   29.000
CIJENA                       6.00
IZNOS                      174.00
- - - - - - - - - - - - - - - - -
#00029 Prirodni sok
ODJEL           BEZALKOHOLNA PICA
CIJENA                       8.00
IZNOS                      264.00
- - - - - - - - - - - - - - - - -
#00035 Fanta Orange
ODJEL           BEZALKOHOLNA PICA
KOLICINA                   16.000
CIJENA                      11.00
IZNOS                      176.00
- - - - - - - - - - - - - - - - -
#00052 Jabuke
ODJEL                        VOCE
KOLICINA                   21.900
CIJENA                       9.00
IZNOS                      197.10
- - - - - - - - - - - - - - - - -
#00135 Cokolada
ODJEL                    ODJEL 08
KOLICINA                   19.000
CIJENA                      12.00
IZNOS                      228.00
UKUPNO
IZNOS                     1228.20
- - - - - - - - - - - - - - - - -
BROJ RACUNA:  POSL101/002600234
03-12-12                    17:58
- - - - - - - - - - - - - - - - -
Tv.Br:                   I9000101
```

Total amount of all PLU sales

7.2. Reports of PLUs in stock

7.2.1. Report of one PLU in stock

The PLU number is entered and the keys **SH** **PLU** are pressed. The registers of this report are not reset, regardless of the report mode X or Z.

7.2.2. Report of all PLUs in stock

This report is selected through the keys **SH** **PLU**. The registers of this report are not reset, regardless of the report mode X or Z.

SH **PLU**

```
DIGITRON d.o.o.
   DIGITRONSKA 33, 52460 BUJE
       *OIB: 84493255348
        KOLIČINE ZALIHA
- - - - - - - - - - - - - - - -
#00016 Bijeli kruh
KOLIČINA ZALIHE          38.000
- - - - - - - - - - - - - - - -
#00017 Raženi kruh
KOLIČINA ZALIHE          29.000
- - - - - - - - - - - - - - - -
#00029 Prirodni sok
KOLIČINA ZALIHE          95.000
- - - - - - - - - - - - - - - -
#00035 Fanta Orange
KOLIČINA ZALIHE          72.000
- - - - - - - - - - - - - - - -
#00052 Jabuke
KOLIČINA ZALIHE          57.000
- - - - - - - - - - - - - - - -
#00135 Čokolada
KOLIČINA ZALIHE         122.000
- - - - - - - - - - - - - - - -
BROJ RAČUNA:  POSL101/002600231
03-12-12                   17:50
- - - - - - - - - - - - - - - -
Tv.Br:                 I9000101
```

7.3. Department reports

7.3.1. Report of one department

The keys **1.** and **2.** select the report of the corresponding department 1 and 2 respectively and the key combinations **SH** **1.** and **SH** **2.** - the report of departments 3 and 4 respectively. The registers of this report are not reset, regardless of the report mode 2 or 3.

7.3.2. Report of all departments

This report is selected through pressing the key combination **SH** **PY1**. The department report is an X report (regardless of the mode X or Z); it is a part of the daily report and its registers are reset only by the daily Z report.

SH **PY1**

```
        IZVJESTAJ PO ODJELIMA
#01 KRUH
KOLICINA                      39.000
IZNOS                         237.90
POVRAT NOVCA
KOLICINA                       0.000
IZNOS                           0.00
#02 BEZALKOHOLNA PICA
KOLICINA                      30.000
IZNOS                         359.30
POVRAT NOVCA
KOLICINA                       0.000
IZNOS                           0.00
#03 ODJEL 03
KOLICINA                      23.000
IZNOS                         467.57
POVRAT NOVCA
KOLICINA                      -1.000
IZNOS                         -83.00
#04 ODJEL 04
KOLICINA                      23.000
IZNOS                         200.10
POVRAT NOVCA
KOLICINA                       0.000
IZNOS                           0.00
#05 VOCE
KOLICINA                      21.900
IZNOS                         197.10
POVRAT NOVCA
KOLICINA                       0.000
IZNOS                           0.00
#08 ODJEL 08
KOLICINA                      17.000
IZNOS                         204.00
POVRAT NOVCA
KOLICINA                       0.000
IZNOS                           0.00
UKUPNO
IZNOS                        1665.97
POVRAT TOTAL                    83.00
- - - - - - - - - - - - - - - - -
BROJ RACUNA:    POSL101/004200349
04-12-12                        20:44
- - - - - - - - - - - - - - - - -
Tv.Br:                     I9000101
```

7.4. Commodity groups reports

7.4.1. Report of one commodity group

The commodity group number is entered and the key ⬤ is pressed.

7.4.2. Report of all commodity groups

This report is selected through pressing the key ⬤.

⬤

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
      *OIB: 84493255348
      IZVJESTAJ PO GRUPAMA
POCETAK IZVJESTAJA      04-12-12
GRUPA ARTIKLA 1
KOLICINA                     31
 IZNOS                   597.20
GRUPA ARTIKLA 2
KOLICINA                     36
 IZNOS                   667.67
GRUPA ARTIKLA 3
KOLICINA                     29
 IZNOS                   401.10
- - - - - - - - - - - - - - -
BROJ RACUNA:  POSL101/004200350
04-12-12                  20:45
- - - - - - - - - - - - - - -
Tv.Br:               I9000101
```

Number of transactions, registered in the commodity group

Total amount of sales, registered in this commodity group

Note: Commodity groups are disabled by default. For supporting commodity groups reports, the necessary commodity groups have to be enabled one by one (parameter 16) in advance and PLU and departments have to be linked to the groups.

7.5. Tax groups report

It is selected through pressing the key **QTY**. It includes the daily turnover and its distribution in tax groups, the calculated VAT, the calculated consumption tax and the net turnover amounts corresponding to each VAT group. The Tax group report is an X report (regardless of the mode X or Z); the Tax report is a part of the daily report and its registers are reset only by the daily Z report.

QTY

```
        DNEUNI PROMET PDU-a
PDU*A                    25.00 %
UKUPAN IZNOS           1144.97
PDU                     228.99
OSNOUICA                915.98
PDU*B                    10.00 %
UKUPAN IZNOS            200.10
PDU                      18.19
OSNOUICA                181.91
PDU*C                     0.00 %
UKUPAN IZNOS            237.90
PDU                       0.00
OSNOUICA                237.90
PNP=3.00%                 0.00
- - - - - - - - - - - - - - - -
UKUPAN IZNOS           1582.97
IZNOS PDU               247.18
IZNOS PNP                 0.00
OSNOUICA               1335.79
- - - - - - - - - - - - - - - -
BROJ RACUNA:  POSL101/004300358
04-12-12                  21:06
- - - - - - - - - - - - - - - -
Tu.Br:               I9000101
```

7.6. Sales report

This report is selected through pressing the key **PY1**. The sales report is an X report (regardless of the mode X or Z); it is a part of the daily report and its registers are reset only by the daily Z report.

```
DIGITRON d.o.o.
  DIGITRONSKA 33. 52460 BUJE
      *OIB: 04493255348
       IZVJESTAJ PRODAJE
PONISTENI RACUNI          -1
  IZNOS               -78.00
STORNO                    -1
  IZNOS               -83.00
PROMJENE                   5
  IZNOS               156.00
MARZE%                     3
  IZNOS                11.07
POPUST%                    2
  IZNOS                 2.70
MARZE                      1
  IZNOS                 2.00
POPUST                     2
  IZNOS                 2.80
GOTOVINA                  30
  IZNOS              1385.97
KARTICA                    3
  IZNOS               280.00
UKUPNO PLACANJA       1665.97
POLOG                      1
  IZNOS                60.00
ISPLATA                    1
  IZNOS               150.00
STANJE               1212.97
- - - - - - - - - - - - - -
BROJ RACUNA:  POSL101/004200352
04-12-12                  20:50
- - - - - - - - - - - - - -
Tv.Br:              I9000101
```

— Number and amount of "void all" receipts

— Number and amount of refund receipts

— Number and amount of corrections

— Number and amount of percentage mark-ups

— Number and amount of percentage discounts

— Number and amount of value mark-ups

— Number and amount of value discounts

— Number and amount of cash payments

— Number and amount of payment 1

— Total amount of all payments

— Number and amount of "Received on account" amounts

— Number and amount of "Paid out" amounts

— Cash paid amounts and received on account amounts are added; refund amounts and paid out amounts are subtracted

7.7. Operators report

7.7.1. Report of one operator

The operator number is entered and the key **+** is pressed. A prompting message **C   00** is displayed at the end of the report in Z mode. The key **C** corresponds to an X report, while the key **00** corresponds to the operator Z report.

7.7.2. Report of all operators

This report is selected through pressing the key ➕. A prompting message

C 00 is displayed in Z mode. The key **C** corresponds to an X report, while the

key **00** corresponds to the operators Z report.

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
       *OIB: 84493255348
     IZVJESTAJ PO OPERATERIMA
POCETAK IZVJESTAJA       04-12-12
#01 OPERATER 27308299306
PONISTENI RACUNI               -1
  IZNOS                    -78.00
STORNO                         -1
  IZNOS                    -83.00
PROMJENE                        3
  IZNOS                    132.00
MARZE%                          3
  IZNOS                     11.07
POPUST%                         2
  IZNOS                      2.70
MARZE                           1
  IZNOS                      2.00
POPUST                          1
  IZNOS                      1.30
GOTOVINA                       17
  IZNOS                    835.97
KARTICA                         2
  IZNOS                    150.00
UKUPNO PLACANJA            985.97
POLOG                           1
  IZNOS                     60.00
ISPLATA                         1
  IZNOS                    150.00
#02 OPERATER 45495790992
PROMJENE                        2
  IZNOS                     24.00
POPUST                          1
  IZNOS                      1.50
GOTOVINA                       13
  IZNOS                    550.00
KARTICA                         1
  IZNOS                    130.00
UKUPNO PLACANJA            680.00
- - - - - - - - - - - - - - - -
BROJ RACUNA:   POSL101/004200355
04-12-12                    20:59
- - - - - - - - - - - - - - - -
Tv.Br:                  I9000101
```

— Number, name and ID (OIB) of operator 1

— Number, name and ID (OIB) of operator 2

7.8. Daily report

It is selected through pressing the key **TOTAL**. The prompt **C   00** is displayed in mode 3. The key **C** corresponds to an X report, while the key **00** corresponds to the daily Z report.

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
      *OIB: 84493255348
         DNEVNI IZVJESTAJ
#01 KRUH
KOLIČINA                    39.000
IZNOS                       237.90
POVRAT NOVCA
KOLIČINA                     0.000
IZNOS                         0.00
#02 BEZALKOHOLNA PICA
KOLIČINA                    30.000
IZNOS                       359.30
POVRAT NOVCA
KOLIČINA                     0.000
IZNOS                         0.00
#03 ODJEL 03
KOLIČINA                    23.000
IZNOS                       467.57
POVRAT NOVCA
KOLIČINA                     1.000
IZNOS                       -83.00
#04 ODJEL 04
KOLIČINA                    23.000
IZNOS                       200.10
POVRAT NOVCA
KOLIČINA                     0.000
IZNOS                         0.00
#05 VOĆE
KOLIČINA                    21.900
IZNOS                       197.10
POVRAT NOVCA
KOLIČINA                     0.000
IZNOS                         0.00
#08 ODJEL 08
KOLIČINA                    17.000
IZNOS                       204.00
POVRAT NOVCA
KOLIČINA                     0.000
IZNOS                         0.00
```

— Department report

```
#01 OPERATER 27308299306
PONISTENI RACUNI           -1
  IZNOS                -78.00
STORNO                     -1
  IZNOS                -83.00
PROMJENE                    3
  IZNOS                132.00
MARZE%                      3
  IZNOS                 11.07
POPUST%                     2
  IZNOS                  2.70
MARZE                       1
  IZNOS                  2.00
POPUST                      1
  IZNOS                  1.30
GOTOVINA                   17
  IZNOS                835.97
KARTICA                     2
  IZNOS                150.00
UKUPNO PLACANJA        985.97
POLOG                       1
  IZNOS                 60.00
ISPLATA                     1
  IZNOS                150.00
#02 OPERATER 45495790992
PROMJENE                    2
  IZNOS                 24.00
POPUST                      1
  IZNOS                  1.50
GOTOVINA                   13
  IZNOS                550.00
KARTICA                     1
  IZNOS                130.00
UKUPNO PLACANJA        680.00
- - - - - - - - - - - - - - -
```

Operators report as a part of the daily report
There is an option in parameter 10 - field 1, which specifies if the daily report includes or does not include the operator report

```
PONISTENI RACUNI              -1     ┐
 IZNOS                    -78.00     │ Sales report
STORNO                        -1
 IZNOS                    -83.00
PROMJENE                       5
 IZNOS                    156.00
MARZE%                         3
 IZNOS                     11.07
POPUST%                        2
 IZNOS                      2.70
MARZE                          1
 IZNOS                      2.00
POPUST                         2
 IZNOS                      2.80
GOTOVINA                      30
 IZNOS                   1385.97
KARTICA                        3
 IZNOS                    280.00
UKUPNO PLACANJA          1665.97
POLOG                          1
 IZNOS                     60.00
ISPLATA                        1
 IZNOS                    150.00
STANJE                   1212.97     ┘
      DNEVNI PROMET PDU-a            ┐ Tax report
PDU*A                    25.00 %
UKUPAN IZNOS             1144.97
PDU                       228.99
OSNOVICA                  915.98
PDU*B                    10.00 %
UKUPAN IZNOS              200.10
PDU                        18.19
OSNOVICA                  181.91
PDU*C                     0.00 %
UKUPAN IZNOS              237.90
PDU                        0.00
OSNOVICA                  237.90
PNP=3.00%                  0.00
- - - - - - - - - - - - - - - - -
UKUPAN IZNOS             1582.97
IZNOS PDU                 247.18
IZNOS PNP                  0.00
OSNOVICA                 1335.79     ┘
- - - - - - - - - - - - - - - - -
BROJ RACUNA:  POSL101/004300358
04-12-12                   21:06
- - - - - - - - - - - - - - - - -
Tv.Br:                 I9000101
```

7.9. Periodic report

This report is selected through pressing the keys **SH** **TOTAL**. The prompt **C 00** is displayed in mode 3. The key **C** corresponds to an X report, while the key **00** corresponds to the periodic Z report.

The periodic report includes data, which is accumulated since the previous issuing of the periodic Z report.

```
DIGITRON d.o.o.
  DIGITRONSKA 33. 52460 BUJE
     *OIB: 84493255348
     PERIODICNI IZVJESTAJ
POCETAK IZVJESTAJA      04-12-12
#01 KRUH
KOLICINA                 77.000
IZNOS                    465.90
POVRAT NOVCA
KOLICINA                  0.000
IZNOS                      0.00
#02 BEZALKOHOLNA PICA
KOLICINA                 58.000
IZNOS                    639.30
POVRAT NOVCA
KOLICINA                  0.000
IZNOS                      0.00
#03 ODJEL 03
KOLICINA                 46.000
IZNOS                    728.00
POVRAT NOVCA
KOLICINA                 -2.000
IZNOS                   -138.00
#04 ODJEL 04
KOLICINA                 45.000
IZNOS                    596.10
POVRAT NOVCA
KOLICINA                  0.000
IZNOS                      0.00
#05 VOCE
KOLICINA                 42.900
IZNOS                    386.10
POVRAT NOVCA
KOLICINA                  0.000
IZNOS                      0.00
#08 ODJEL 08
KOLICINA                 27.000
IZNOS                    324.00
POVRAT NOVCA
KOLICINA                  0.000
IZNOS                      0.00
```

Department report corresponding to the period

```
PONISTENI RACUNI            -2
  IZNOS              -163.00
STORNO                      -2
  IZNOS              -138.00
PROMJENE                     6
  IZNOS               185.00
MARZE%                       4
  IZNOS                12.42
POPUST%                      3
  IZNOS                 4.62
MARZE                        1
  IZNOS                 2.00
POPUST                       2
  IZNOS                 2.80
GOTOVINA                    62
  IZNOS              2859.40
KARTICA                      2
  IZNOS               280.00
UKUPNO PLACANJA        3139.40
POLOG                        2
  IZNOS               110.00
ISPLATA                      2
  IZNOS               270.00
- - - - - - - - - - - - - - -
BROJ RACUNA:   POSL101/004300420
05-12-12                 21:15
- - - - - - - - - - - - - - -
Tv.Br:               I9000101
```

7.10. Electronic journal review

All the printed documents, stored in the Electronic journal of the ECR, can be accessed for reading through a PC.

The operation is started in mode 3 by pressing the keys **SH** **QTY**.

ⵏⵙⴱ Ⲧⴷ is displayed. After that the ECR is connected to the PC, using the USB cable. In this way the electronic journal contents can be examined, as data is stored in folders and files by dates.

To exit the operation, the USB cable has to be unplugged first and then the key **C** has to be pressed.

8. ELECTRONIC JOURNAL PRINTOUTS

Printing of documents stored in the ECR Electronic journal is provided in the Service mode (mode 5).

8.1. EJ printout by a daily Z report number

41 **STL** a number of daily Z report **QTY**

After the key **STL** is pressed in the above sequence, $n\_b\bar{u}n$ is displayed. After the key **QTY** is pressed in the above sequence, $C\bar{H}rd\ SCH$ is displayed first while the required data is searched for and $r\bar{E}\bar{H}d$ is displayed while the documents are read out and printed.

8.2. EJ printouts by a receipt number

5 **STL** a receipt number **QTY**

After the key **STL** is pressed in the above sequence, $r\bar{C}P\_n$ is displayed. After the key **QTY** is pressed in the above sequence, $C\bar{H}rd\ SCH$ is displayed while the receipt is searched for.

8.3. EJ printouts by dates

6 **STL** a number of daily Z report **QTY** an initial date **QTY** a final date

After the key **STL** is pressed in the above sequence, $n\_b\bar{u}n$ is displayed. $d\ b\bar{u}n$ is displayed to show that an initial date has to be entered. $d\ End$ is displayed to show that a final date has to be entered.

An example of a receipt and the corresponding printout from the EJ:

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
       *OIB: 84493255348
0002 OPERATER 45495790992        2
- - - - - - - - - - - - - - - - -
ODJEL 03 1   x 150.00 = 150.00 A
UKUPNO kn 150.00
GOTOVINA                   150.00
- - - - - - - - - - - - - - - - -
POSL101/005800486      01 ARTIKAL
06-12-12                    16:12
- - - - - - - - - - - - - - - - -
ZASTITNI KOD:
bbdfcc4c4d9f18254403e6dabeee14a1
JIR:                     e1ed6b9c
   -efa7-45d5-9e8e-4e4eac56fb20
- - - - - - - - - - - - - - - - -
Tu.Br:                   I9000101
```

5 STL 005800486 QTY

```
DIGITRON d.o.o.
   DIGITRONSKA 33. 52460 BUJE
       *OIB: 84493255348
       ISPIS EKT
- - - - - - - - - - - - - - - - -
= = = = = = = = = = = = = = = = =
- - - - - - - - - - - - - - - - -
MEMO EKT Br 0058
- - - - - - - - - - - - - - - - -
 D I G I T R O N   d . o . o .
   DIGITRONSKA 33. 52460 BUJE
       *OIB: 84493255348
0002 OPERATER 45495790992        2
- - - - - - - - - - - - - - - - -
ODJEL 03 1   x 150.00 = 150.00 A
 U K U P N O   k n   1 5 0 . 0 0
GOTOVINA                   150.00
- - - - - - - - - - - - - - - - -
POSL101/005800486      01 ARTIKAL
06-12-12                    16:12
- - - - - - - - - - - - - - - - -
ZASTITNI KOD:
bbdfcc4c4d9f18254403e6dabeee14a1
JIR:                     e1ed6b9c
   -efa7-45d5-9e8e-4e4eac56fb20
- - - - - - - - - - - - - - - - -
Tu.Br:                   I9000101
- - - - - - - - - - - - - - - - -
= = = = = = = = = = = = = = = = =
- - - - - - - - - - - - - - - - -
KRAJ ISPISA EKT
BROJ RACUNA:  POSL101/005800492
05-12-12                    16:13
- - - - - - - - - - - - - - - - -
Tu.Br:                   I9000101
```

005800486 is the receipt number
0058 is the forthcoming
daily Z report

9. MESSAGES, DISPLAYED IN CASES OF ERRORS AND OVERFLOWS

When an error message is displayed, its number must be searched for in the list below. The key **C** has to be pressed to clear the message.

Err	1	Multiplication overflow.
Err	2	Daily report overflow. Daily Z report must be issued.
Err	3	Illegal operation
Err	4	The discount exceeds the registration/subtotal
Err	5	The amount is 0
Err	6	Receipt overflow
Err	7	Quantity overflow
Err	8	The entered value exceeds the maximum price value
Err	9	The value is 0
Err	10	Free prices are disabled for this PLU or department
Err	11	This quantity must be integer
Err	12	The maximal number of receipt transactions is reached. The receipt must be closed.
Err	13	This percentage value is out of the range 0.00 – 99.99
Err	14	The operation is disabled; the result would be negative
Err	15	PLU access error
Err	16	The quantity in stock is not enough for this sale
Err	18	There is no registration that can be corrected
Err	19	Periodic report overflow
Err	21	The ready cash is less than the entered PO sum
Err	22	Operators report overflow. Operators Z report must be issued.
Err	26	PLU report overflow. PLU Z report must be issued
Err	28	No duplicate can be printed
Err	32	This barcode is already programmed for another PLU
Err	33	PLU Z report is needed
Err	34	Commodity group report overflow.
Err	36	Not enough cash for refund operation
Err	37	Deactivated VAT group
Err	43	48 hours have elapsed since issuing an unsigned receipt. The unsigned receipts must be sent to the Tax administration CIS
Err	73	Lithium battery fault
Err	75	The amount or the price exceeds the limit (in parameter 2 or 4)
Err	76	Real time clock error