

CSP-ON user manual V1.3.4

for software version F1.3.4



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Introduction

Instructions for CSP systems can be found at www.cspay.pl/doc

Central Payment System (CSP) is an advanced service sales system.

This manual applies to software version F1.3.4.

The described version of the CSP-ON access device is designed to support the sale of a service based on powering any electrical receiver.

The access device after making the payment - turns on the 230VAC power supply, making the service available to the Customer.

Payment for the service is made with coins or tokens.

Safety of use

Please observe the following instructions before turning on the device:

- Read this manual **carefully** before connecting CSP-ON device. It contains important information on installation, operation and safety. Keep the link to the manual so you can refer to it in the future in case of problems.
- Installation the device **according** to the this installation instructions.
- Do not plug in a device to the wiring system that has **visible signs of damage or defects**. In this case, contact your product dealer.
- The manufacturer is not responsible for defects resulting from **not following the recommendations** of this manual. Following these recommendations is the basis for a possible claim for a defective device.

Environmental protection



In accordance with the provisions of the Act of July 29, 2005 on waste electrical and electronic equipment, it is prohibited to place used equipment marked with a crossed-out wheeled garbage can symbol with other waste. A user who intends to dispose of a product is obliged to return used equipment to a point conducting such collection or to the dealer from whom it was purchased. The above obligations have been imposed in order to reduce the amount of waste generated from waste electrical and electronic equipment and to ensure an adequate level of collection, recovery and recycling of raw materials. Details of the law can be found at gios.gov.pl.

This manual is provided electronically. If you do not need to do not print it .

Help **protect** the environment!

Description

Application

CSP-ON - device of the Central Payment System is a stand-alone access device, with the help of which we turn on and off the power supply of any electrical receiver. The elapsed time is presented on a three-segment LED display - in addition, a tri-color diode indicates the current function of the device. The device is available with 230VAC power supply. The same power supply voltage is passed to the power supply output for the connected device.

CSP-ON are widely used in: paid laundries, showers, playground lighting, solariums, saunas, and many other services.

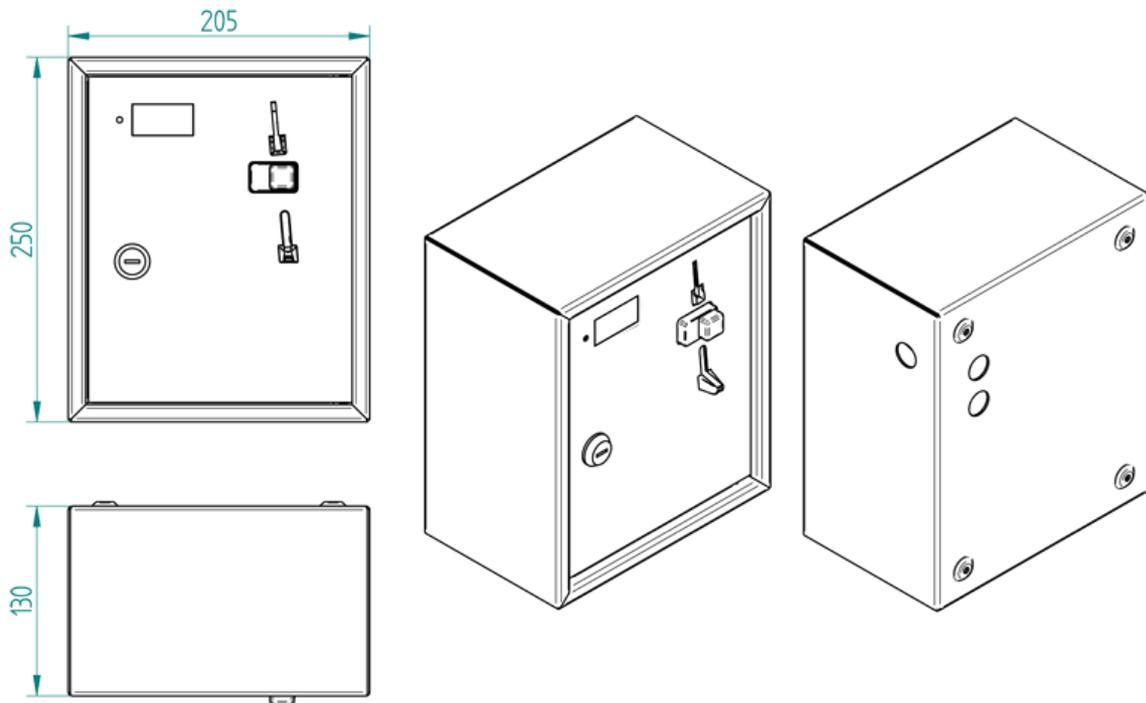
Technical data

- housing 1-2mm powder coated steel sheet
- housing dimensions 130 x 205 x 250 (W x L x H)
- basic color RAL7035 (gray)
- tightness class IP20
- device is equipped with PE grounding
- power supply 230VAC +- 10% 50-60Hz
- maximum power of connected output device - 4500W
- power consumption of the device at stand by mode - maximum 5W
- power consumption of the device - maximum 25W
- working temperature 5°C - 50°C - installation only inside the building
- relative humidity < 85%
- weight 3.60 kg

Device components

Housing

This device was construction of powder-coated steel housing, the front panel is made of stainless steel.



Other relevant system components:

- power supply board CSP-ON-E-PSB V1.1
- controller board CSP-CB V1.0
- display board CSP-DB-1 V1.0
- coin validator EMP-890.04 V7

Installation

Mounting to the wall

The device should be screwed to a stable wall surface with four screws, beforehand prepare the appropriate connection wires.

Connection to wiring system

The connection of the device to the electricity wiring system should be made by a person with appropriate authorization in this area.

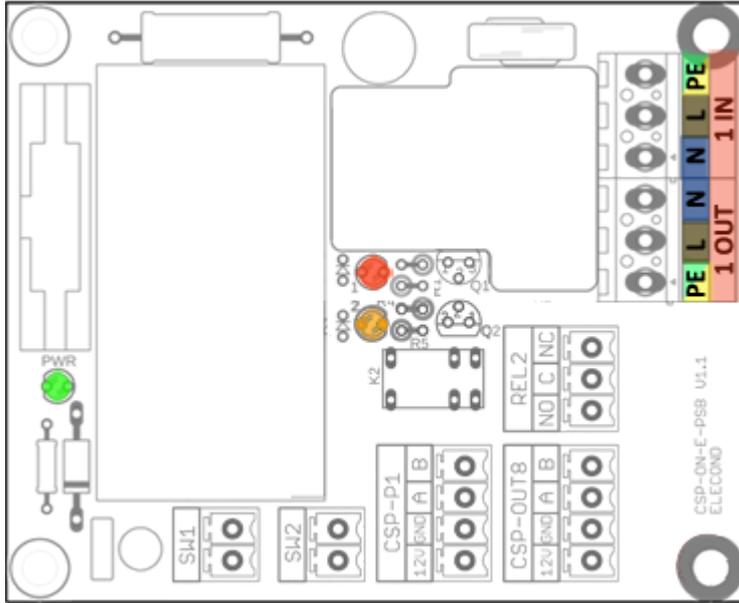
The device in the set does not have wires for connection. For this purpose, use a three-core power cable - flat or round wire of the following type: YDY Cu 3x2.5mm² PVC 300V.

NOTE ! Remember to adjust the cross-section of the wires to the power of the connected device. Maximum 20A (4500W).

Connect the device to 230VAC ± 10% 50-60Hz mains and supervised device (receiver) according to the instructions below.

The cable designations: **PE** protective / **L** phase / **N** neutral.

Sequentially, from the top of the cable:



1 IN input power supply 230VAC

PE / L / N

1 OUT output power supply
230VAC / max. 20A

N / L / PE

CSP-P1 - a clock showing the remained time, equipped with a

button - performing the START / STOP function of the paid service.

- connected to the [CSP-P1] [12V GND A B] connector on the power supply board.

Any button - performing the START / STOP function of the paid service

- connected to the inputs on the the power supply board [SW1] [SW2].

Expansion of the CSP-ON with further 8/16/24/32 outputs can be realized by connecting from 1 to 4 pieces of CSP-PANEL8

- connected to the [CSP-OUT8] [12V GND A B] connector on the power supply board.

System setup

The device is configured by entering the settings menu. The menu is navigated by three keys located inside the device, on the top edge of the CSP-CB controller board.

Use [OK] button to select the function or approve the value, use [+] [-] buttons to set the value.



To use the settings menu, open the device and hold down the [OK] button for 3 seconds.

Holding down the [-] button exits one level higher in the settings menu.

Holding down the [+] [-] keys for a longer time accelerates the change of values.

Settings menu

We should start the first settings with three menu parameters that define the functionality of CSP-ON.

These are functions: 133, 201, 203.

Price list functions

001 - main counter - total of all coin thrown in (does not count tokens).

Press [OK] to enter the level below and display the current counter.

The amount is scrolled forward with the [+] button. The amount is presented three digits at a time, reading from the left side of the number.

We exit by pressing [OK].

101 - settings first position of the price list

Press [OK] to enter the level below. For more channels, more price lists will appear in the menu if assigned to more channels.

One price list has the ability to set up to nine time and price thresholds, each successive threshold will be higher than the previous one.

It is not possible to define another threshold without defining the previous one, subsequent thresholds will appear automatically.

Subsequent thresholds of time and price are used in progressive pricing, where for successively higher amounts we get relatively more time.

[_11] - first time settings

Press [OK] to define the value of the first time.

The lowest value of 0.01 indicates the time of 1 second, in turn we move to edit minutes and hours.

We change in the range of 0.01 seconds to 720 hours.

We set the value and approve [OK].

[_12 - _19] - setting the second to ninth time

[_71] - first price settings

Press [OK] to define the value of the first price.

The default value indicates the value of 1.00 of the main currency of the device . Change in the range of 0.10 to 500.

Depending on the set parameter of function No. 133.

The default value indicates the value of 100 of the device's main currency . We change in the range of 100 to 9900.

We set the expected value and confirm [OK].

[_72 - _79] - setting the second to ninth price

133 - currency presentation on the display

Press [OK] to define the type of currency presentation, after selecting, confirm [OK].

[0] - currency with a resolution to two decimal places 0.00, service value from 0.10 to 500 (PLN, EUR)

[1] - currency without presentation of decimal place 0.00, service value from 100 to 9.90 (9900) (HUF)

140 - token value settings

Press [OK] to select the token number [01] [02] [03].

Define the value in the range of 0.1 - 500, and confirm the selection with [OK].

150 - settings for the length of time of credit augmentation, according to the progressive price list

Function visible in the menu after setting more than one time and price.

Press [OK] to define the value in the range of 0.10 - 0.10. from 10 seconds to 10 minutes. The selection is confirmed with [OK].

Channel functions

201 - number of external channels

Number of independent devices that will be supported by CSP-ON extended by CSP-PANEL8.

Press [OK] to define the value and confirm [OK].

[0] - stand-alone device, no external channels

[1-8] - requires connection of 1 x CSP-PANEL8

[9-16] - requires connection of 2 x CSP-PANEL8

[17-24] - requires connection of 3 x CSP-PANEL8

[25-32] - requires connection of 4 x CSP-PANEL8

202 - mapping numbers to channels

Option available for operating external channels. By default, each channel [_01 - _32] is assigned values from [1 - 32]. We can change them in the range [1 - 999].

Press [OK], [+] [-] select the channel number [_01] by pressing [OK], the assigned number will be displayed - default [1.].

Start editing by pressing [OK], use [+] [-] [OK] keys on the next three positions to define the new assigned number. The selection is confirmed with [OK].

The procedure is repeated for each channel [_01 - _32].

203 - number of price lists supported by the device

For each channel, we can assign one of the eight defined price lists.

By default, price list No. 1 is assigned to each channel [_01 - _XX].

The assigned No. of the next pricelist will appear in the list of pricelists, sequentially in the [101 - 108] menu.

Inputs / Outputs functions

Each of the available inputs and buttons has the following work functions:

[0] - out of service

[1] - channel selection

[2] - channel selection, after holding down the button, it is possible to switch on the service of additional 30 seconds free of pay time twice

This function is useful for opening the door of the washing machine (dryer), which needs power after the expiration of the paid time and completed washing (drying) program.

[3] - pause of service and paused a purchased time

[4] - pause of service without paused a purchased time

The above working functions of inputs and buttons are selected sequentially for individual inputs and buttons of the CSP-ON system.

301 - input options available on the power supply board and controller board

[_01] - input [IN1] on the controller board CSP-CB

[_02] - input [IN2] on the controller board CSP-CB

[_03] - input [SW1] on the power supply board CSP-ON-E-PSB

[_04] - input [SW2] on the power supply board CSP-ON-E-PSB

302 - controller display button options

Function not supported in CSP-ON.

305 - button options CSP-PANEL8

[_01 - _32] - channel selection buttons on CSP-PANEL8 from 1 to 32

306 - button options CSP-P1

[_01 - _32] - channel selection buttons or start and stop service CSP-P1 from 1 to 32

Service process functions

Process - we understand as an event associated with time and paid service. The start of the process is not synonymous with the start of the paid service.

It is possible to start paid time, without turn on the service. The following settings are global for all channels.

401 - time to process start

[0.05 - 0.10.] from 5 second to 10 minutes

The time after which a paid service will be started or paid time without service start, will be started automatically.

At any time before this time, you can start the process using a defined input or button.

402 - action after the start of the process

[0] - paid time starts, service is turn on

[1] - paid time starts, service remains paused until input is triggered or button is pressed

403 - number of service pause

[0] - no possibility of pause the service

[1-10] - specified number of service pause

404 - time of maximum service pause

[0.05 - 0.10.] od 5 second to 10 minutes

Maintance service functions

901 - beep signaling settings

[0] - beep off

[1] - beep on

990 - default configuration

In further product development, we will provide default configurations. To restore the default configuration, select the configuration number and hold the [OK] button for 10 seconds. The device will reboot and restore the default configuration.

995 - adresacja urządzeń zewnętrznych

[0] - adresacja wyłączona

[1] - adresacja urządzeń zewnętrznych załączona

999 - checking software version

Press [OK] scroll [+] and read **[F 1.] [F .3.] [F .4.]** sequentially.

The current version is F1.3.4

Currently menu level is illustrated by the blinking of the LED next to the display.

SETTINGS MENU	LED	COLOR / STATUS	FUNCTION
	 	WHITE / BLUE / FLASHING	FIRST MENU LEVEL
	 	WHITE / GREEN / FLASHING	SECOND MENU LEVEL
	 	WHITE / RED / FLASHING	THIRD MENU LEVEL

Each menu level will automatically exit after a specified time of inactivity.

Device operation

Time is measured on three LED displays, the device has an beep sound indication.

The operating status of the device is indicated by RGB LEDs.

POWER SUPPLY BOARD (CSP-ON-PSB)	DESCRIPTION	LED	COLOR / STATUS	FUNCTION
inside housing on the back plate	PWR		GREEN / CONTINUOUS	CORRECT 230VAC POWER SUPPLY
	1		RED / CONTINUOUS	CHANNEL TURN ON
	2		ORANGE / CONTINUOUS	AUXILIARY CONTACT TURN ON
CONTROLLER BOARD (CSP-CB)				
inside the housing on the front doors	PWR		GREEN / CONTINUOUS	CORRECT 12VDC POWER SUPPLY
	DIAG		ORANGE / CONTINUOUS	POWER SUPPLY LOSS - SYSTEM SHUTDOWN

To pay for the service, insert a coin or token into the top slot of coin validator.

The value of the coins is converted into paid time, according to the defined price list.

At any time you can increase the credit of the paid service.

The open credit time is 30 seconds, this is the time in which we can increase the credit, using the achieved threshold of the next price and time.

FRONT PANEL	LED	COLOR / STATUS	FUNCTION
outside the housing		ORANGE / CONTINUOUS	INCOMPLETE CREDIT
		BLUE / FLASHING	OPENED CREDIT - SELECTED CHANNEL - CHANNEL TURN ON
		BLUE / CONTINUOUS	OPENED CREDIT - CHANNEL TURN ON
		GREEN / CONTINUOUS	CHANNEL TURN ON
		GREEN / FLASHING	SELECTED CHANNEL - CHANNEL TURN ON

Erasing time

To erase paid time, simultaneously hold down the [-] [+] buttons for 8 seconds.

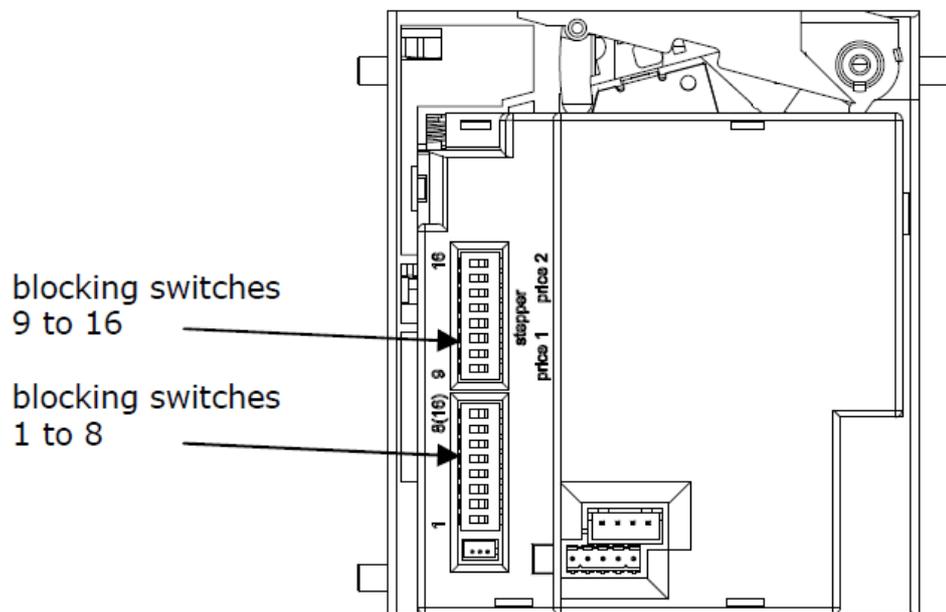
Settings of the coin validator

The coin validator used in the CSP-ON simultaneously supports two currencies, the basic PLN and the additional EUR.

Switches located on the side of the coin validator are used to disable a particular coin.

To disable a particular coin, move the corresponding switch to the ON position.

16	
15	Token 03
14	Token 02
13	Token 01
12	
11	
10	2,00 EUR
9	1,00 EUR
8	
7	0,50 EUR
6	0,20 EUR
5	0,10 EUR
4	5,00 PLN
3	2,00 PLN
2	1,00 PLN
1	0,50 PLN



Support

You can find all the necessary information about our products on the website:

www.cspayments.pl

Any defects, comments and suggestions should be addressed to the manufacturer of the device:

ELECOND :: ul. Spacerowa 7, 78-400 Turowo :: tel. +48 94 374 94 88 :: office@cspayments.pl

Maintenance

CSP-ON during its operation does not require maintenance.

Operating temperature of the device 5°C + 50°C - indoor installation.

Relative humidity below 85% - adequate ventilation of the room ensured.

The device itself does not raise the ambient temperature.

The device complies with the provisions of the directives:

- low voltage (*Low Voltage Directive*) 2014/35/EU
- electromagnetic compatibility (*EMC Electro Magnetic Compatibility*) 2014/30/EU.

Warranty

The manufacturer ELECOND company guarantees the use of the Central Payment System CSP-ON for a period of 24 months from the date of the sales invoice.

During this period, the device will be repaired at the manufacturer's expense and effort, after setting a date for service repair. For this purpose, please contact the manufacturer.

ELECOND :: ul. Spacerowa 7, 78-400 Turowo :: tel. +48 94 374 94 88 :: office@cspayments.pl

After considering the validity of the complaint, the device will be repaired, within a maximum of 7 working days or a shorter period of time, as determined by another agreement with the purchaser of the system.

The manufacturer reserves the right to refuse to repair or replace the device, within the warranty period, if there is a concern that the device has been operated inconsistently with this manual.

The CSP-ON Central Payment System was manufactured in Poland.