CSP-OD user manual V1.5.3

for software version F1.5.3

:: www.cspayments.pl ::

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 F1.5.3

The described version of the CSP-OD is designed to support the sale of access service to a paid space by opening a door or turnstile to a single entrance.

Access device after pay fee - operates any electric strike lock, magnetic lock or turnstile. Turns on 12VDC or other power given to the potential-free contact of the power supply, making the service available to the customer.

Pay fee 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-OD 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-OD - device of the Central Payment System is a stand-alone access device, with the help of which you will handle paid access to any designated zone. The LCD display shows the amount of the fee. After inserting the appropriate amount of coins or tokens, the door or turnstile is opened. The device is able to monitor the status of the door opening and inform about the failure to close it again.

CSP-OD are widely used in public toilets services, access to paid zones, parking lots.

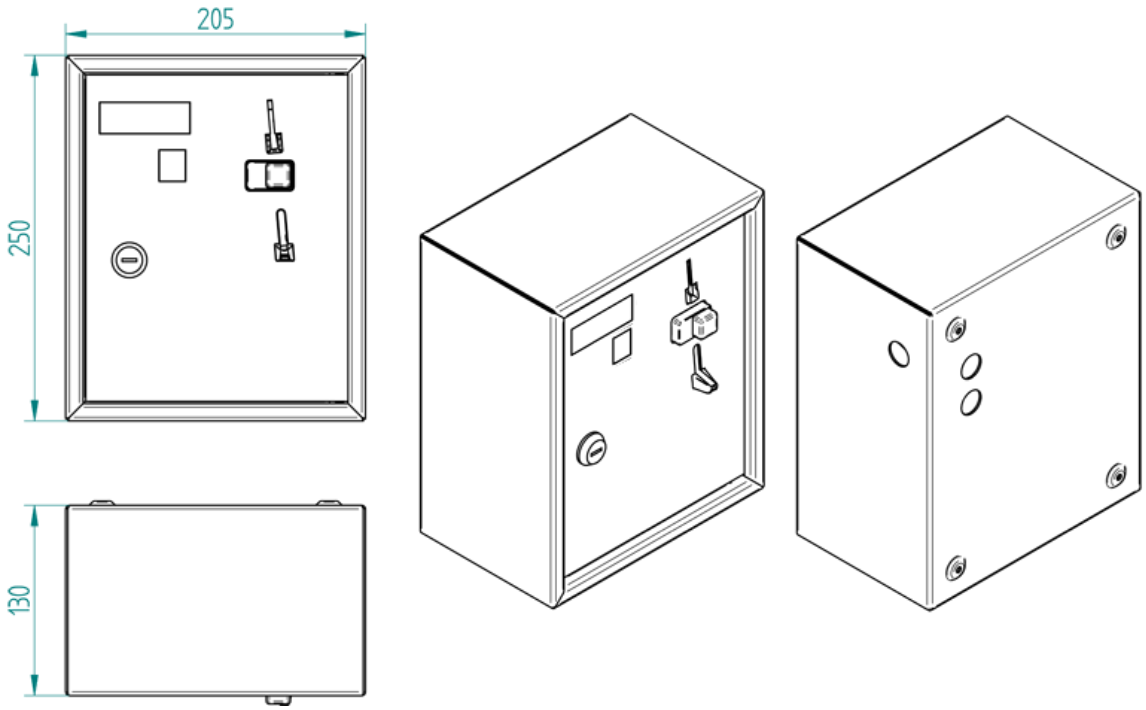
Technical data

- 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
- power consumption of the device at stand by mode - maximum 7W
- power consumption of the device - maximum 12W
- 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-OD-E-PSB V1.1
- controller board CSP-CB V1.0
- display board CSP-DB-2 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.

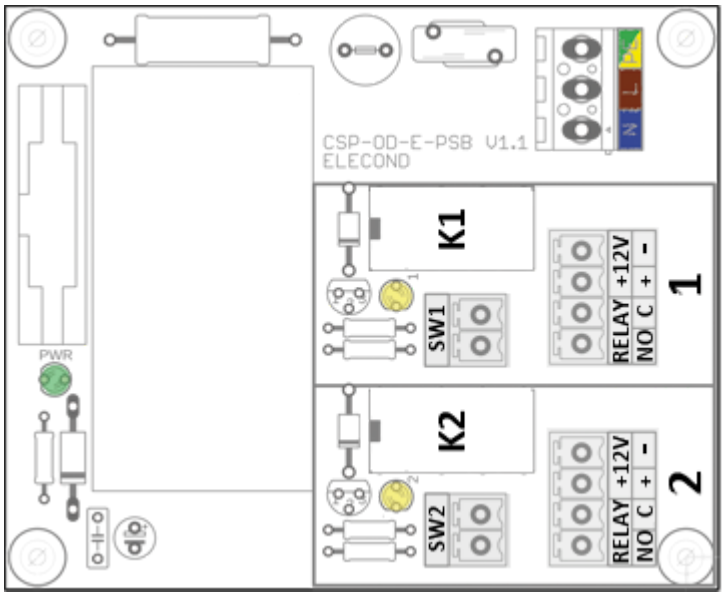
Connection to wiring system

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.

The cable designations:

PE protective



L phase

N neutral.

The power supply board has two inputs SW1 and SW2 for connecting door opening control and room occupancy control.

Components with used to open the door you shoud to the terminals of the **+12V**[+/-] connector for power control (electric lock strike or magnetic lock) and **RELAY** [NO/C] for potential-free contact control (magnetic lock, turnstile or barrier).

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.

DECREASE [-] 🔴	CONFIRM [OK] ⚫	INCREASE [+] 🟡

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

Settings menu

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 - setting the service price

Press [OK] to enter the level below.

[101 / 71] - setting the service price [PAY FEE]

By pressing [OK] we define the value of price.

The default value indicates the value of 2.00 of the main currency of the device . We change in the range of 0.10 to 500.

We set the expected value and confirm [OK].

135 - form of presentation of the incomplete fee amount

[0] - presentation of amount throw [INSERTED]

[1] - presentation of the remaining amount to thrown [REMAIN]

140 - token value settings

Press [OK] to select the token number [140 / 1] [140 / 2] [140 / 3].

We define the value in the range of 0.1 - 500.

151 - time of abandonment of the incomplete fee amount

Press [OK] to enter the level below.

[-] - no time of control

[0 : 00 : 30] 30 seconds - [0 : 10 : 00] 10 minutes

204 - turn off channel to out of service

[0] - channel working normally

[1] - out of service, no fee possible

[2] - service always turn on, can be used without fee pay

Inputs / Outputs functions

Inputs

Two inputs on the power supply board SW1 and SW2 are available as standard in the device - in menu [/3] and [/4], respectively.

Additional inputs IN1 and IN2, located on the controller board, are optionally present in the device - in menu [/1] and [/2], respectively.

[... / 1] - input IN1 on the controller board CSP-CB

[... / 2] - input IN2 on the controller board CSP-CB

[... / 3] - input SW1 on the power supply board CSP-OD-E-PSB

[... / 4] - input SW2 on the power supply board CSP-OD-E-PSB

To each of the following inputs of the controller board and power supply board, we can assign, according to individual functions, an action:

301 - physical configuration of inputs

[0] - NO - input set to "normally open" when device is turned on

[1] - NC - input set to "normally closed" when device is turned on

311 - inputs function configuration

[0] - no function, input does not cause any action

[8] - control of trigger element (operation of door opening control, turnstile or barrier tripping)

[9] - occupancy control cooperating with the trigger element control input (alarm motion detector)

[10] - absolute occupancy control (occupancy of the room appears immediately when the entrance is triggered from the alarm motion detector)

[11] - one-time service turn on at without fee pay (useful for administration staff)

[12] - permanent service turn off of the device from the input level [OUT OF SERVICE]

[13] - permanent service turn on of the device from the input level [FREE OF PAY]

Other undescribed functions, have no application in this version of the program.

Occupancy control is possible with a motion detector used in alarm systems.

Service access to the service is possible with the use of an external keyed lock ignition or a RFID card reader.

If you needed more options, you should inquire with the manufacturer about them.

321 - configuration of mapping inputs to the channel

All inputs should be assigned to the only available channel in the CSP-OD - channel #1.

Outputs

By default, the device has two outputs on the power supply board described +12V (power supply) / RELAY (NO/C contact) triggering relays K1 and K2 respectively [/3] and [/4] in menu.

Additional relay outputs K1 and K2 located on the controller board, in the device occur optionally - in menu [/1] and [/2] respectively.

[... / 1] - relay K1 on the controller board CSP-CB

[... / 2] - relay K2 on the controller board CSP-CB

[... / 3] - relay K1 on the power supply board CSP-OD-E-PSB

[... / 4] - relay K2 on the power supply board CSP-OD-E-PSB

To each of the following outputs of the controller board and power supply board, we can assign, according to individual functions, an action:

351 - physical configuration of outputs

[0] - relay normally turn off / turn on after payment

[1] - relay normally turn on / turn off after payment

361 - outputs function configuration

[0] - no function, relay does not cause any action

[1] - main control of the service

[2] - secondary service control (output triggered during alarm condition - not closed door - you can connect additional light or sound signaling to this output)

371 - configuration of mapping outputs to the channel

All outputs should be assigned to the only available channel in the CSP-OD - channel #1.

Service process functions

421 - configuration of the time of turn on the main service (this is how much time the electric lock strike will powered or until the door is opened in case of door opening control)

Press [OK] to define a value in the range of

[0 : 00 : 01] 1 second - [0 : 02 : 00] 2 minutes

422 - configuration of waiting time for door closing

Press [OK] to define a value in the range of

[-] - no time of control

[0 : 00 : 20] 20 seconds - [0 : 02 : 00] 2 minutes

423 - maximum occupancy time

Press [OK] to define a value in the range of

[0 : 01 : 00] 1 minute - [0 : 30 : 00] 30 minutes

Time controlled only for the setting of 311 / 4 [9], for the setting of parameter [10] - absolute occupancy control - is not controlled.

When the maximum occupancy time is exceeded, the device will go to the state of ready to pay fee.

Maintance service functions

901 - beep signaling settings

[0] - beep off

[1] - beep on

999 - checking software version

Press [OK]

The current version is F1.5.3

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

Examples of settings

The following are examples of input and output configurations, depending on the expected operation function of the CSP-OD system and the opening and occupancy control elements used or not.

- ***The function of accepting pay fee without door-opening control and occupancy control - used in turnstile gates.***

  On the output no. 1 on the power supply board - described RELAY (NO/C contact) will change state for 1 second.

  301 / 3 [0]

361 / 3 [1]

421 [0 : 00 : 01] 1 second

422 [-]

- ***The function of accepting pay fee with control of opening and closing of the door - without an alarm condition in case of failure to close the door within a certain time.***

  On the output No. 1 on the power supply board - described as +12V there will be power / RELAY (NO/C contact) will change state from NO to NC for 30 seconds or until the state changes on the input No. 1 on the power supply board - described as SW1 and set as NC (door opening control - magnetic sensor or switch in the electric lock strike).

  301 / 3 [0]

  311 / 3 [8]

  361 / 3 [1]

  421 [0 : 00 : 30] 30 seconds (time remains to opening door)

  422 [-]

- ***The function of accepting pay fee with control of opening and closing the door - with an alarm condition if the door is not closed within a certain time.***

  On the output No. 1 on the power supply board - described as +12V there will be power / RELAY (NO/C contact) will change state from NO to NC for 30 seconds or until the state changes on the input No. 1 on the power supply board - described as SW1 and set as NC (door opening control - magnetic sensor or switch in the electric lock strike).

  If the door is opened for more than 20 seconds, an alarm condition will appear, the state of output No. 2 on the power supply board will change.

  301 / 3 [1]

  311 / 3 [8]

  361 / 3 [1]

  361 / 4 [2]

  371 / 4 [1]

  421 [0 : 00 : 30] 30 seconds (time remains to opening door)

  422 [0 : 00 : 20] 20 seconds (time to close the door after it has been opened)

- ***The function of accepting pay fee with control of opening and closing the door - with an alarm condition in case the door is not closed within a certain period of time and control of service occupancy.***

  On the output No. 1 of the power supply board - - described as +12V, the power supply / RELAY (NO/C contact) will change state from NO to NC for 30 seconds or until the state changes on the input No. 1 of the power supply board - described as SW1 and set as NC (door opening control - magnetic sensor or switch in the electric lock strike).

  When the door is opened for more than 20 seconds, an alarm condition will appear, the state of output No. 2 on the power supply board will change.

After the door is closed and the state of output No. 2 on the power supply board changes (alarm motion detector connected), the occupied state of the room will occur, it will end after the door is opened again and closed. The occupied state will also be terminated 10 minutes after the occupied state occurs. After that, the system will go to the ready state to accept next payment.

301 / 3 [1]

311 / 3 [8]

311 / 4 [9] - or [10] for absolute occupied state - regardless of reopened and closed the door

321 / 4 [1]

361 / 3 [1]

361 / 4 [2]

371 / 4 [1]

421 [0 : 00 : 30] 30 seconds (time remains to opening door)

422 [0 : 00 : 20] 20 seconds (time to close the door after it has been opened)

423 [0 : 10 : 00] 10 minutes (maximum occupation time)

For functions where the following are required simultaneously for two channels: door opening and closing control and occupancy control, please contact the manufacturer.

Device operation

Working status of device

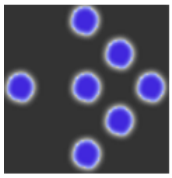
We can specify several operating states of the device.

- The state of ready to work of the device to accept fee is indicated by a flashing blue arrow, it points to the coin validator.

  Only during this state is it possible to accept the pay fee.

  To pay fee for the service, insert coins or tokens individually into the top slot of the coin slot.

  The form of presentation of the incomplete fee amount is configured in option 135.



- The state of open passage is indicated by a flashing green "bird". Closing the door again or returning the turnstile to its initial state allows the pay fee to be accepted again.

- The alarm condition of an under-closed door is indicated by a flashing red cross. The condition will appear after the timeout of the door closing option 422. In addition, you can use the SW2 output on the power supply to pass this information on (sound or light signal).

- The occupied status of the room is indicated by an orange hourglass that appears. The occupied state will incoming the SW2 input, for configuration option 311 / 4, setting parameter [9] or [10]. During the occupied state, it is not possible to accept a pay fee.

- The state of service turn off is indicated by a red cross. The status is possible when for option 204 / 1 we set parameter [1]. We can also call up the state temporarily, using a keyed ignition configured with the appropriate input.

- The state of permanent service turn on is indicated by a green "bird". The status is possible when for option 204 / 1 we set parameter [2]. We can also call up the state temporarily, using a keyed ignition configured with the appropriate input.

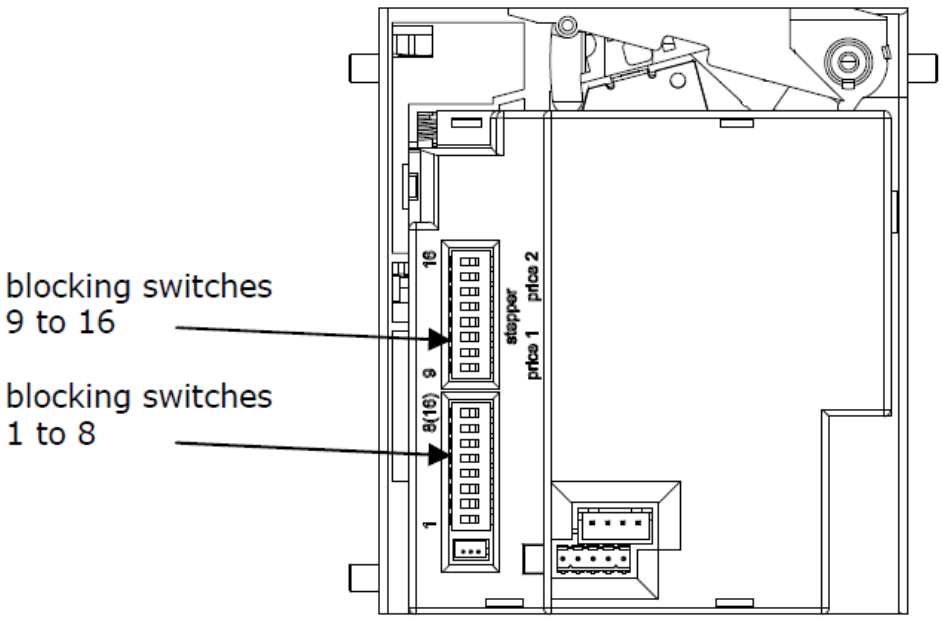
Settings of the coin validator

The coin validator used in the CSP-OD 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-OD 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-OD 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.

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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-OD Central Payment System was manufactured in Poland.