

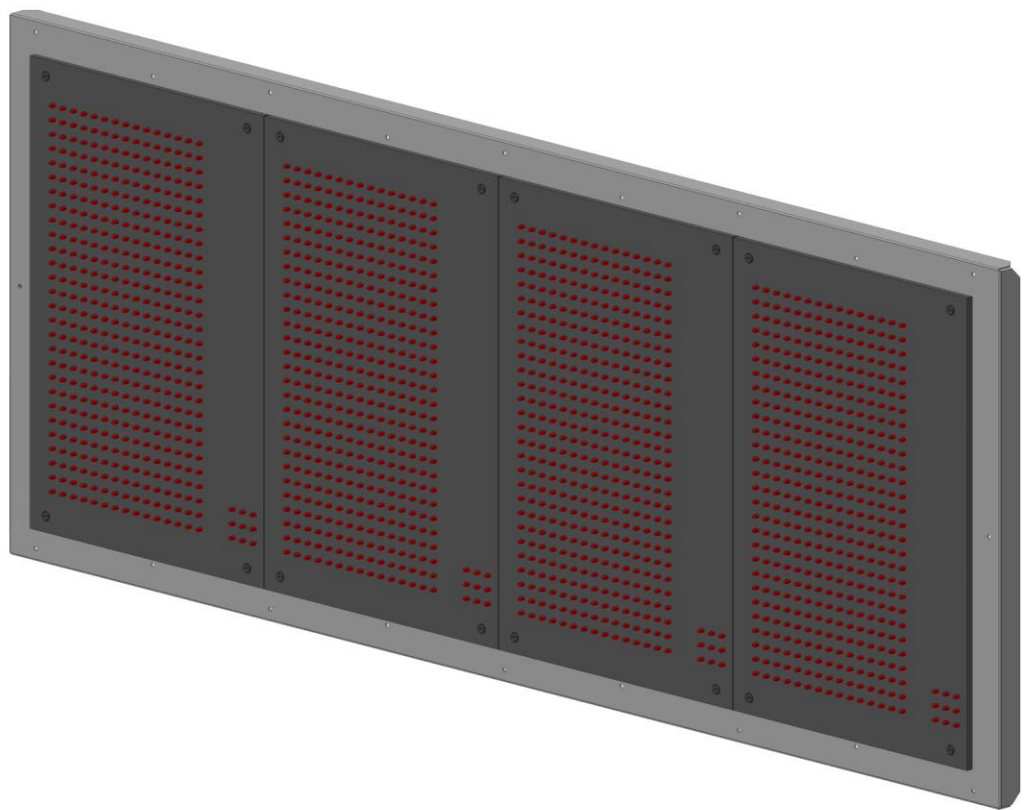


RGB Technology[®]
MODERN TECHNOLOGIES

OPERATION AND MAINTENANCE MANUAL

Price module PM35-4 in a mounting frame

Product code:
302-16-05



*Explanatory figure

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1 Manufacturer

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 76-035 Tymień
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2 Specifications

Price module PM35-4

Dimensions ¹ [mm]:	1163 x 430 x 28.5
Digit height:	35cm
Permissible input voltage range (long-term):	110 ÷ 240 VAC
Permissible input voltage range (short-term):	85 ÷ 264 VAC
Acceptable input voltage frequency range:	47 ÷ 63 Hz
Operating temperature (ambient):	-25°C ÷ 45°C
Operating temperature (device surface):	-25°C ÷ 70°C
Average power consumption:	21.5W
Ingress protection rating ² IP	67
Weight:	8.7kg

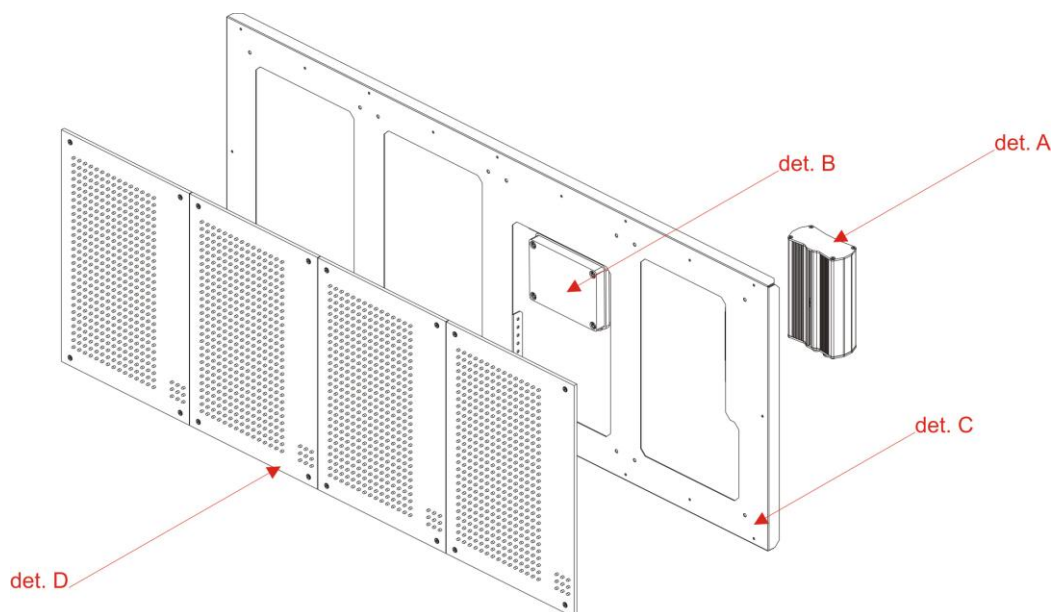
3 Transport and storage

The device is sensitive to mechanical damages. Care should be taken to properly protect the device during transport so as to eliminate any damage. It is forbidden to transport the device components separately in a collective package – each component must be packed separately and cannot 'bump' during transportation.

Due to protective packaging, the device should be stored in the temperature -20°C ÷ +60°C at the humidity below 99%RH.

4 Device construction

The figure shows price module PM35-4³.



det. A – power supply unit; det. B – junction box; det. C – mounting frame; det. D – LED modules

Fig. 1

¹ Dimension without a frame.

² IP degree of protection according to EN 60529 standard.

³ Explanatory figure.

5 Mounting the device

NOTICE!

Before you begin any installation operations or start using the device, you should refer to the manual supplied by the manufacturer. Improper connection to the mains power supply, incautious device installation, or improper use may cause property damage, loss of health or death from electrical shock! Moreover, any failure to follow the manufacturer's instructions may void your warranty.

NOTICE!

Keep in mind that all the components should be mounted with the leads facing down.

NOTICE!

It is forbidden to make any additional mounting points or any holes in the device assembly components.

5.1 Price module PM35-4

The PM35-4 device is composed of four LED modules PM35, a power supply unit and a junction box, which are mounted on the mounting frame. All the components form a single price module PM35-4.

5.1.1 Dimensions of price module PM35-4

All the dimensions shown in the figures are given in [mm].

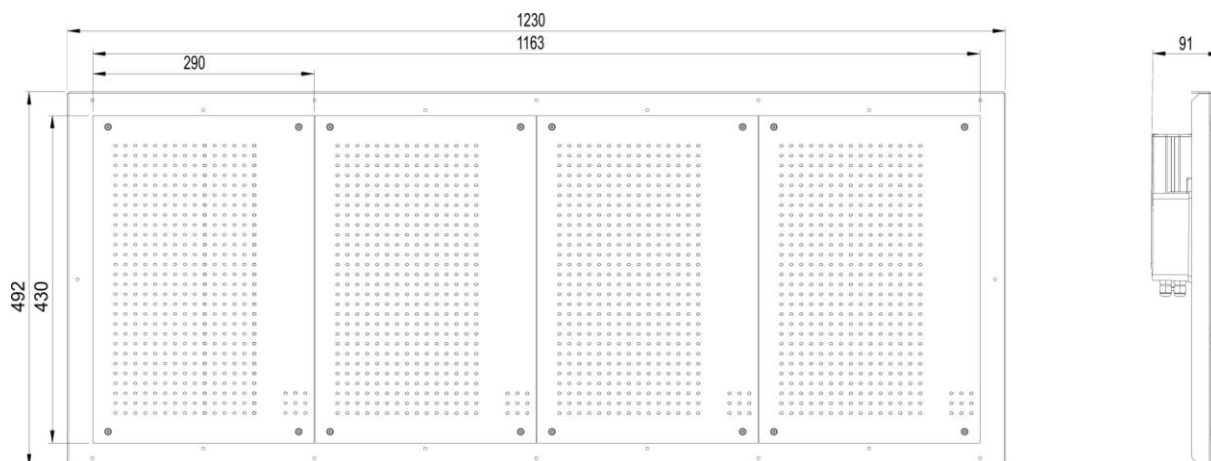


Fig. 2

5.1.2 Dimensions and arrangement of mounting holes on RAM-013

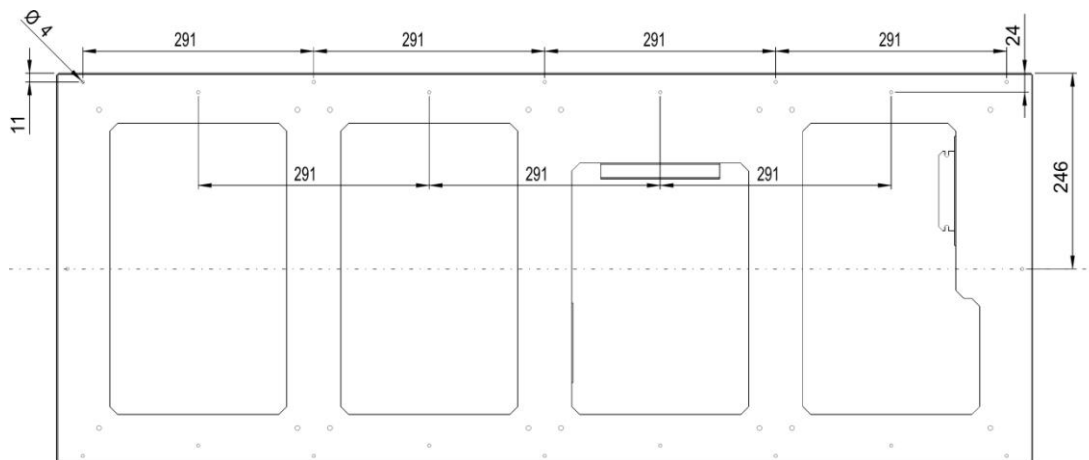
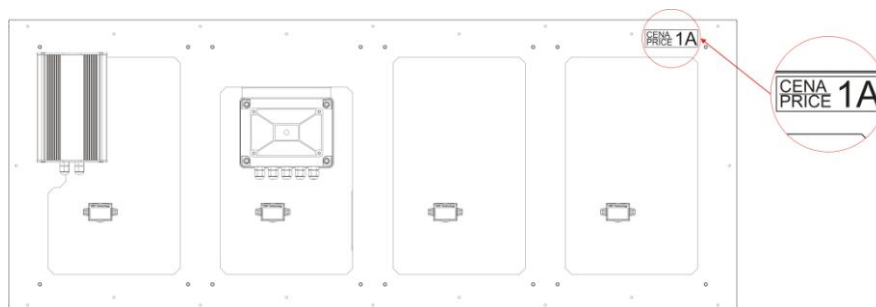


Fig. 3

5.1.3 Installation of price modules

To facilitate the installation, each price module PM35-4 has its number (Fig. 4). The number of a price module facilitates quick module mounting in the price pylon. The number consists of a digit denoting the price line (where 1 denotes the highest price line) and a letter denoting the side of the pylon.



rys. 4

Price pylon with price modules PM35-4 (Fig. 5)⁴.

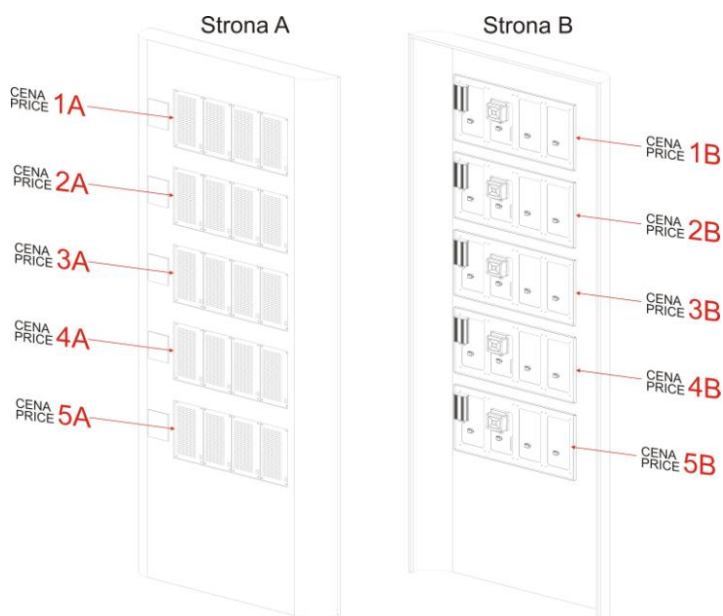


Fig. 5

A price pylon may include maximum 6 prices on each side, and each price may be composed of maximum 6 digits. Each single LED module has a dot in the bottom right-hand corner (Fig. 6). Due to the fact that the dot appears in each LED module, it may be edited from the software level to appear in any LED module, except for the digit that is the price module rightmost digit.

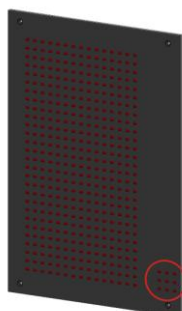
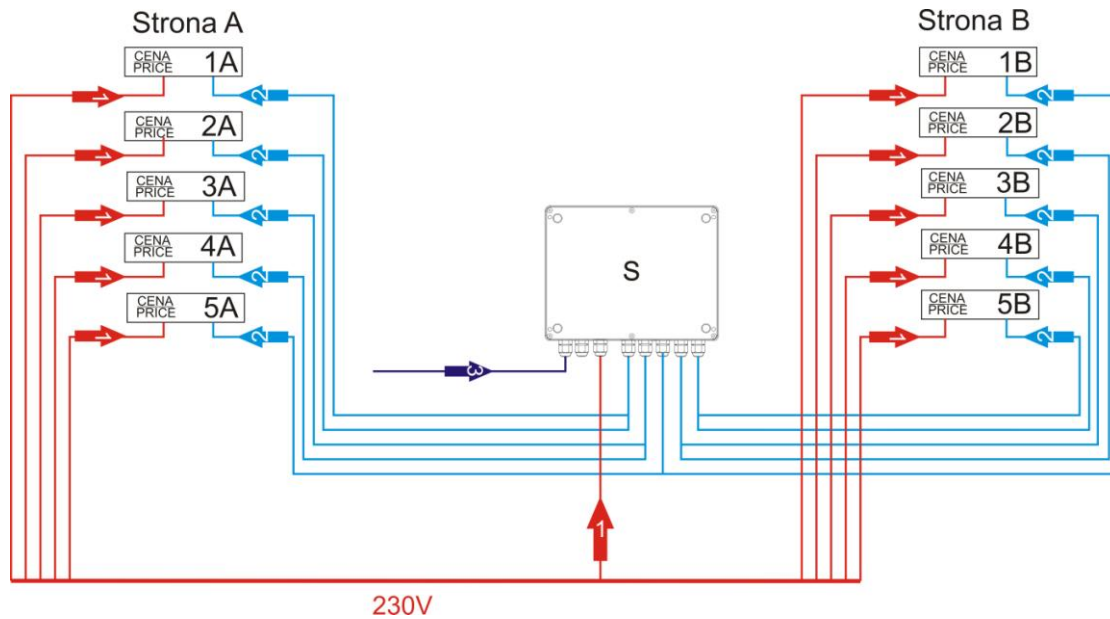


Fig. 6

⁴ Explanatory figure.

5.1.4 Diagram of electric connections PM35-4, option with 10 price modules



Legend:

1A, 1B....

– price module numbers,

S

– controller,

Red -1-

– 3 x 1mm² length 5m (core markings: blue, brown, yellow-and-green) power cord to supply power to the price modules and the S controller,

Red -230V-

– power supply 230V,

Blue -2-

– 2 x 0.5mm² length 5m (core markings: white, green) signal cables connecting the price modules with the controller,

Dark blue -3-

– 2x0.5mm² length 2m (core markings: black, red) lighting sensor input,

Fig . 7

5.1.5 Cable connections in the controller box

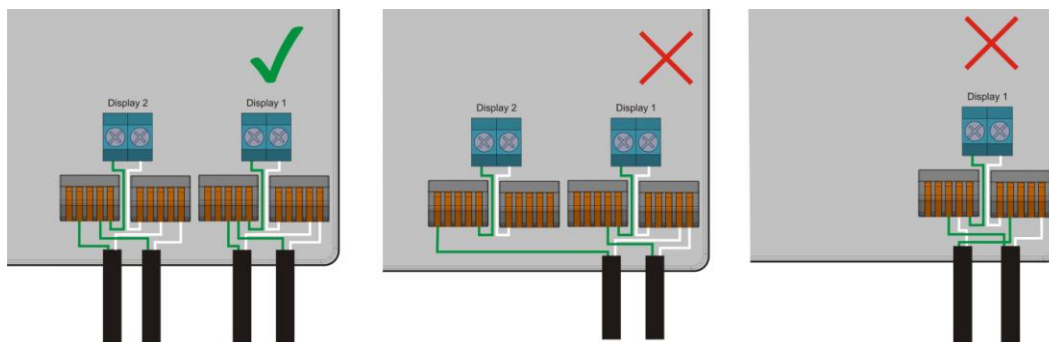


Fig. 8

6 PYLON controller

The controller is a unit responsible for displaying the set content by the LED modules. The unit has 3 ports, and each of them is able to serve up to 4 price modules. The detailed description of the PYLON controller can be found in the Technical and Operational Documentation (DTR) manual of the number in conformity with the controller catalogue index number.

7 LED module automatic brightness control

In the standard version, a lighting sensor is included (Fig. 9). The controller, in response to the intensity of daylight, adjusts the brightness of the price pylon LED modules. To make the sensor function properly, you should locate it in a place where daylight appears. Pay special attention to whether another source of light is not directed onto the sensor, as it may interfere with the reading of the sensor. The detailed description of the sensor is available in the Technical and Operational Documentation (DTR) of the sensor.



Fig. 9

8 Power supply unit

Each price module has an individual power supply unit, which is mounted on the mounting frame. The detailed description of the power supply unit is available in its operation and maintenance manual.

9 Initial start-up

Step 1: Make sure that all the price modules are properly located in the price pylon (point 5.1.4, Fig. 7),
Step 2: Make sure that all the price modules have been installed in the correct orientation (**leads down**),
Step 3: Connect the modules and the controller to the mains power source,
Step 4: The properly connected system should display random digits on the LED modules until the user changes the displayed content.

10 Disposal and recycling

10.1 Packaging material recycling

The packaging materials must be segregated, then recycled in accordance with local regulations for waste disposal regulations.

10.2 Device disposal

The device can not be disposed with regular household waste!

According to Directive 2002 / 96 / EC (WEEE), when repair is not economically reasonable, user is obliged to hand over damaged or destroyed device to an appropriate disposal facility .



11 Most common errors during the installation

1. Boxes mounted contrary to the manual, e.g. with leads up.
2. LED modules mounted contrary to the diagram, e.g. exchanged sequence of module addresses.
3. Drilling additional mounting holes or holes in the junction boxes.
4. Connecting the signal anode and cathode (white and green cores) to two different ports of the controller.
5. Connecting improper cores in the WAGO connectors (e.g. connecting the white and green cores of the signal cable to the same WAGO connector)