

# Manual Emergency Pushbutton mcr RPO-1



## OPERATION AND MAINTENANCE MANUAL User Instruction Manual

### Table of contents:

USER INFORMATION.....	1
DESCRIPTION OF THE DEVICE .....	2
TECHNICAL SPECIFICATION.....	3
WARRANTY TERMS AND CONDITIONS .....	4

### User information

Thank you for selecting the mcr RPO-1 manual emergency pushbutton. Please, read this document carefully and follow the instructions. This will ensure smooth and reliable operation of smoke exhaust systems and safety for the users and easy assembly of the device.

Mercor Light&Vent sp. z o.o. reserves the right to modify the product or the documentation without notice.

We wish to ensure your full satisfaction with our products and will be glad to provide professional service and assistance to you, if necessary.

**Mercor Light&Vent sp. z o.o.**

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Waste electrical and electronic equipment should be collected selectively and then subjected to recovery and recycling processes!



## Description of the device

The mcr RPO-1 manual emergency pushbutton is used to manually release an alarm in smoke exhaust systems and to provide information on the status of mcr 9705 or mcr 0204 smoke exhaust control units.

### Related documents:

- technical approval **CNBOP-PIB-KOT-2021/0274-1009** issue 2,
- certificate of conformity **CNBOP-PIB no. 4529/2022**,
- declaration of conformity no. **010/L&V/HO/2025** dated 11.07.2025.

The electrical diagram pushbutton is shown in Fig. 2.

The view of the interior of the pushbutton housing is shown in Fig. 1.

The pushbutton has three LED indicators:

- red – ALARM,
- amber – FAULT,
- green – OK,

LED terminals are directly and independently connected to a terminal strip which ensures the universal character of the mcr RPO-1 manual emergency pushbutton.

## Assembly

The emergency pushbutton should be placed in a location which allows easy access for users and maintenance staff (if possible along evacuation routes).

Install the device on a level surface, using appropriate metal connectors selected in accordance with the substrate material.

## Alarm release

After breaking the glass panel in the device door (CAUTION! GLASS), push the alarm button (1). The SW1 contact switch will close the alarm line. A mechanical block will keep the line closed until the block is released.

## Alarm reset

Open the device housing by a special key and release the mechanical block

of the button, using the lever. Replace the glass panel.

The ALARM RESET (2) button is used to cancel the alarm status of the control unit and to automatically close the vents after the alarm. The R1 resistor (10kΩ) connected in series with the SW2 contact switch ensures appropriate current supply, which is interpreted by the

control unit as the alarm reset signal. **Hold down the button for at least 1 second!**

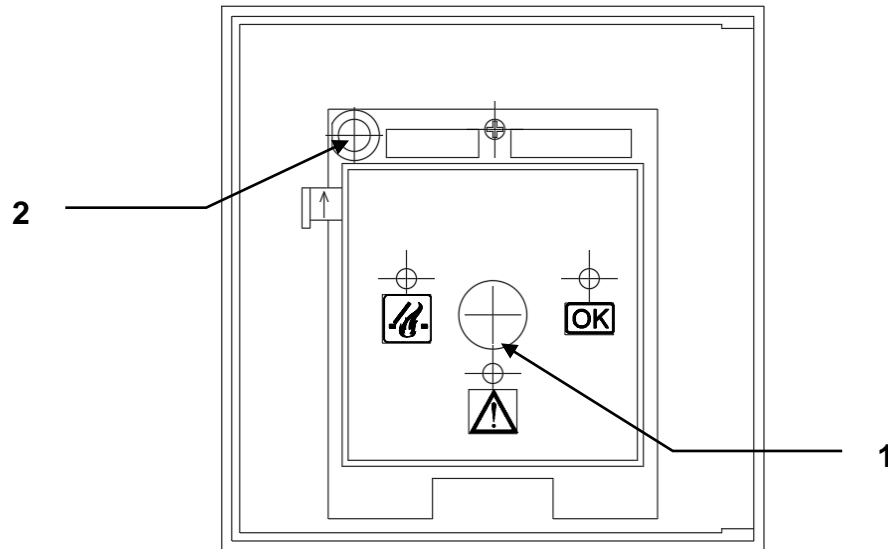


Fig. 1 View of the interior of the housing of the RPO-1 pushbutton.

Along the top edge of the board, there are terminal strips used to connect leads. Connection diagram is shown in Fig. 3.

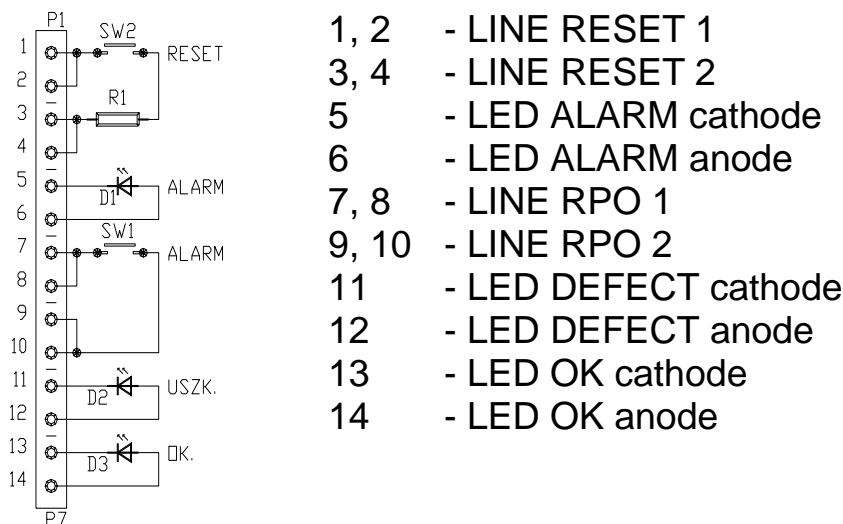
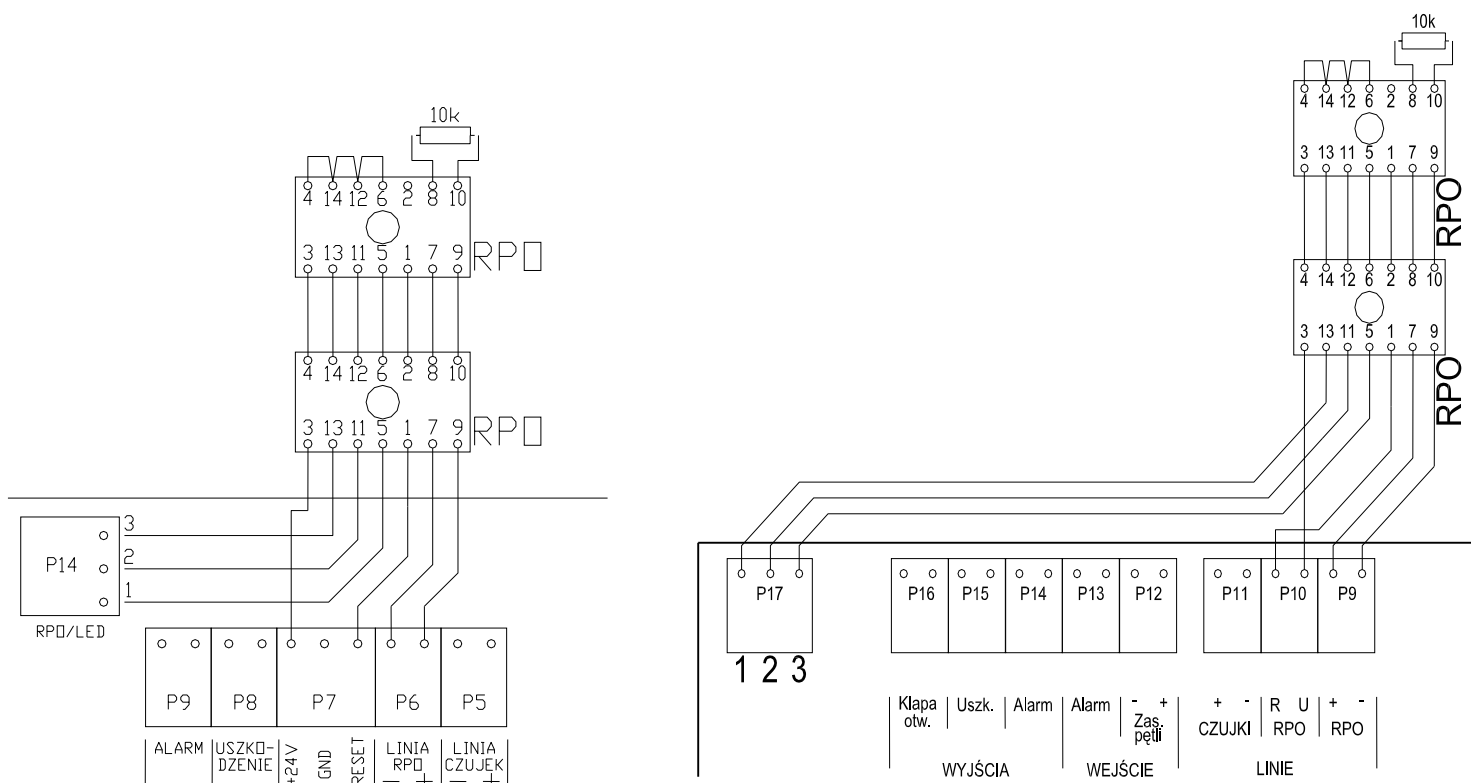


Fig. 2 Electric diagram of the RPO-1 pushbutton.

## Technical specification

Item	Value
Compatible control units	mcr 9705; mcr 0204
Alarm pushbutton parameters	24V=, max. 100 mA
Working temperature range	-10°C + 55°C
Protection level for housing	IP 3X
Dimensions (H x W x D)	135 x 135 x 33 mm
Range of diameters leads to be connected	0.5 ÷ 0.75 mm <sup>2</sup>
Required number of wires in the connected lead	7
Release mode	Indirect
Type	I (operation and signalisation)
Climate class	I



**Fig. 3 Connection diagram of the mcr RPO-1 pushbutton with mcr 0204 control unit (on the left) and mcr 9705 control unit (on the right).**

## Warranty terms and conditions

1. Mercor Light&Vent sp. z o.o. grants a 12-month quality guarantee for equipment, starting from the date of purchase, unless the agreement provides otherwise.
2. Each defect under guarantee should be reported to a local representative of Mercor Light&Vent sp. z o.o. immediately, i.e. within 7 days of its discovery.
3. Applications can be made by phone at +48/ 58 341 42 45, by email to [claim@mercor.com.pl](mailto:claim@mercor.com.pl) or by sending a letter to: Mercor Light&Vent sp. z o.o. 80-408 Gdańsk, Grzegorz z Sanoka 2.
4. If during the term of guarantee any physical defects of the equipment become evident, Mercor Light&Vent sp. z o.o. shall remove them within 21 days of the written notification, subject to paragraph 8.
5. Mercor Light&Vent sp. z o.o. reserves the right to lengthen the repair time in the event of complicated repairs or those that require non-standard sub-assemblies [elements] or spare parts to be purchased.
6. Liability under the Guarantee covers only defects resulting from causes inherent in the equipment sold.
7. In the event of defects resulting from inappropriate operation of the equipment or due to other reasons stated in par. 6, the Buyer/Guarantee Holder shall bear the costs of their removal.
8. The guarantee does not cover:
  - damages and breakdowns of the equipment due to inappropriate operation, user's interference, lack of maintenance or periodic servicing;
  - equipment damages resulting from causes other than those that Mercor Light&Vent sp. z o.o. is responsible for, in particular: acts of God such as torrential rainfall, flood, hurricane, flooding, stroke of thunder, overvoltage in the mains, explosion, hail, fall of aircraft, fire, avalanche, landslide and secondary damages due to the above-listed causes. Torrential rain is defined as rain with an efficiency index of at least 4 (or 5 in Chomicz scale or torrential rain grade IV (A<sub>4</sub>)). Should it be impossible to determine the index mentioned in the previous sentence, the actual condition and the degree of damage at the place of its origin proving that it is the consequence of torrential rain will be considered. Hurricane is defined as wind blowing at the speed of at least 17.5 m/s (damages are deemed to have been caused by hurricane if the effects of hurricane have been found in the immediate neighborhood);
  - damages due to failure to immediately report the defect discovered;
  - worsened quality of coating due to the natural ageing process (fading, oxidation);
  - defects due to using abrasive or aggressive cleaning products;
  - damages due to aggressive external factors, especially chemical and biological ones.
  - parts liable to natural wear and tear during operation (e.g. seals) unless a manufacturing fault has occurred;
  - damages due to improper transport, unloading and storage of the device;
  - damages due to installation inconsistent with the MANUAL and the rules of good construction practice;
  - devices or their parts in case the rating plate or guarantee seals are broken or damaged.
9. The Guarantee shall expire forthwith if:
  - The Buyer/Guarantee Holder makes design modifications on his own without consulting Mercor Light&Vent sp. z o.o.,
  - Maintenance or periodic servicing are not done in due time or are performed by unauthorized persons or a service center not authorized by Mercor Light&Vent sp. z o.o., or the equipment is operated in the wrong way,
  - Any interference of unauthorized persons – except activities connected with normal operation of the equipment.
10. The Buyer/Guarantee Holder is responsible for proper operation and maintenance of the equipment and for regular (min. twice a year) servicing;

As regards matters not regulated by these "Warranty terms and conditions", relevant regulations in the Civil Code, and in particular Art. 577-581 shall apply.

### Service

1. Periodical service inspections of the equipment should be carried out during the whole service life of the equipment.
2. The service inspections should be carried out by a firm properly authorized by Mercor Light&Vent sp. z o.o.
3. For service-related issues, please contact the Service Department, phone no. +48 58 341 42 45 ext. 127 or fax: +48 58 341 39 85, 8 am – 4 pm (Monday-Friday).