# Room-pressure display
# RXE119 F001

| | size 37.5 mm |
|---|---|

**RXE119 F001** is a display for indicating pressure in laboratories, clean rooms and infection-protected isolation rooms.
The pressure is indicated by large LEDs, so is easy to read from distance. Integrated in the display is a yellow alarm indicator with 7 LEDs which can be activated in different alarm situations.
Normal measuring range: –50…50 Pa.
The display can be mounted on the wall or with a bracket for recessed mounting.
Housing of light grey polycarbonate (RAL7035); degree of protection is IP67.

**Function**
The display is connected to a pressure sensor with an output of 0…10 V or 2…10 V.
Actual value is shown in the display.
Normal measuring range: –50…50 Pa with an input of 2…10 V, but the measuring range be calibrated using two potentiometers on the printed circuit board.
Max. measuring range: 300 Pa in the range -199…+199 Pa.
Input signal ground can be electrically isolated from supply N by a jumper on the printed circuit board.

The alarm is activated with a 24 V a.c. input.
A jumper on the printed circuit board provides a choice of either a steady or flashing light for the alarm indicator.

**Technical data**

| | |
|---|---|
| Size | 180x130x35 mm |
| Degree of protection | IP67 |
| Colour | Light grey RAL 7035 |
| Power supply | 24 V a.c.  (14…26 V) |
| Power consumption | 4 VA |
| Input | 0…10V, 2…10V |
| $R_i$ | 100 kΩ |
| Measuring range | -199…199 |
| Alarm indicator | 7 yellow LEDs, 24 V a.c. |
| Display | 3 red LEDs segment |

**Accessories**
MP119 for recessed mounting.

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**Terminal wiring**

| Input 0…10, 2…10V- | 1 |
|---|---|
| Input 0…10, 2…10V+ | 2 |
| Alarm 24 V a.c., L | 3 |
| Alarm 24 V a.c., N | 4 |
| Power supply 24 V a.c., L | 5 |
| Power supply 24 V a.c., N | 6 |

**Adjustment**

The measuring range can be adjusted with 'Zero' and 'Span' potentiometers. The potentiometers are located on the printed circuit board to the right of the display. The upper is for 'Zero' and the lower for 'Span'.

E.g.:
Measuring range 0…100 Pa, input 0…10V.

1. Disconnect the input from terminal 2 and adjust the 'Zero' pot. to 0 on the display.
2. Connect 10 V d.c. input to terminal 2 and adjust the 'Span' pot. to 100 on the display
3. Reduce the input to 0 V and check that the display still is 0; if not, see 1.

The potentiometers have 15 turns from min. to max.

**Separate signal ground**
Installation in a system with input that needs a separate ground.
Remove jumper 1 located on the printed circuit board close to the 'Span' potentiometer.
The function can be used if the input comes from a system with a reference that is different to 24 V, N.
With input 0…20 or 4-20 mA, connect a resistor of 500 Ω between terminal 1 and 2.

**Alarm indicator**
The alarm indicator is activated by an external 24 V a.c. between terminals 3 and 4.
Normally, a jumper can be placed between terminals 4 and 6 to get the same reference for the display and the alarm indicator. The alarm indicator is activated by connecting 24 V a.c., L to terminal 3.
With jumper 2, the choice can be made between continuous or flashing yellow light.
Jumper 2 is located on the printed circuit board to the right of the alarm indicator.

**Installation**
The display is designed for wall or recessed mounting.
Wall mounting; cable inlet with Pg 9 from the top.
Recessed mounting; bracket MP119 with clamp for cable.
Cable inlet at the rear through a break-out aperture on the housing.