

# Room-pressure display RXE 119



**RXE119** 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.

**RXE119 F001** For mounting on the wall.  
Housing of light grey polycarbonate RAL7035



**RXE119 F002** For recessed mounting.  
Junction box of light grey polycarbonate RAL 7035.  
Bracket of 1mm galvanized steel. Panel of 4mm Plexiglass.



## Specification

Type	Mounting	Input signal	Power alarm indicator	Power supply	Degree of protection
RXE 119 F001	On the wall	0...10V	24V AC	24V AC	IP 67
RXE 119 F002	Recessed	0...10V	24V AC	24V AC	IP 67

## Technical data

<i>Size HxWxD</i>		<i>Power supply</i>	24 VAC (14...26V)
RXE119F001	180x130x35mm	<i>Power consumption</i>	4 VA
RXE119F002 (Panel)	250x200x4mm	<i>Input</i>	0...10V, 2...10V
<i>Degree of protection</i>	IP 67	<i>R<sub>i</sub></i>	100 Kohm
<i>Colour</i>		<i>Measuring range</i>	-199...199
RXE119F001	Light grey RAL 7035 Black front	<i>Alarm indicator</i>	Yellow LEDs, 24VAC
RXE119F002 (Panel)	Blue M48 Cosmos Image perfect	<i>Display</i>	3 LEDs segment size of numbers 37,5mm

## 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 VAC input.

A jumper on the printed circuit board provides a choice of either a steady or flashing light for the alarm indicator.

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## Terminal wiring

Input 0...10, 2...10V-	1
Input 0...10, 2...10V+	2
Alarm 24VAC, L	3
Alarm 24VAC, N	4
Power supply 24VAC, L	5
Power supply 24VAC, 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  $\Omega$  between terminal 1 and 2.

## Alarm indicator

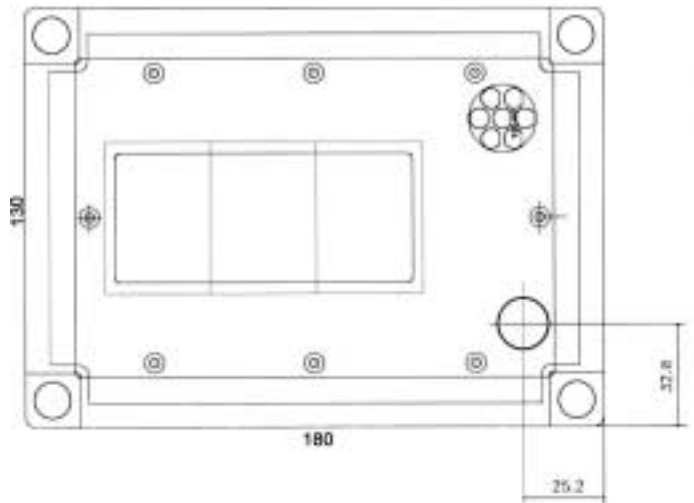
The alarm indicator is activated by an external 24 V a.c. between terminals 3 and 4.

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.



Size refer to RXE 119 F001 and the junction box to RXE 119 F002



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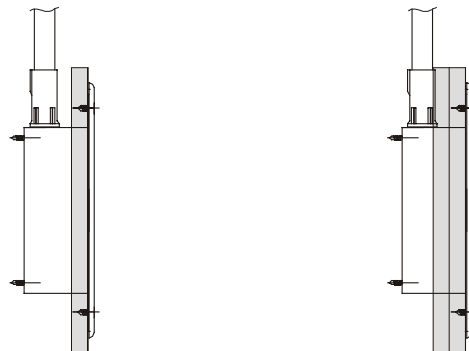
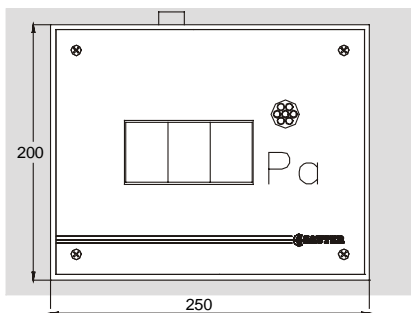
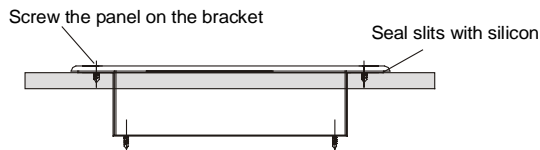
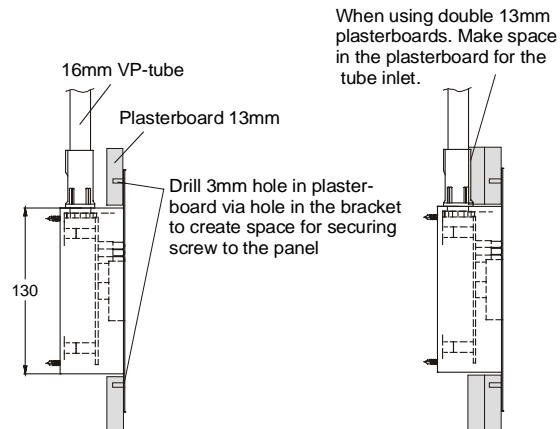
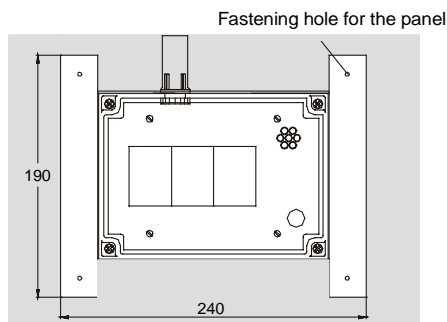
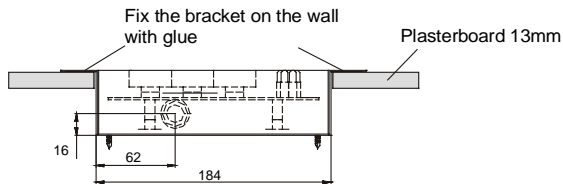
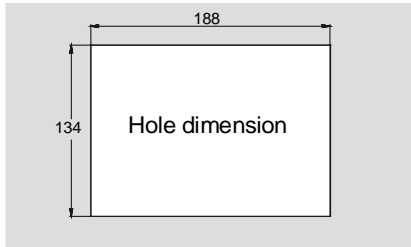


## Mounting RXE 119 F001 (on the wall)

The display is screwed with four screws in the wall. Cable inlet with Pg 9 from the top.

## Mounting RXE 119 F002 (recessed)

The display is recessed via a bracket which glues on the wall. Cable inlet with 16mm VP-tube. Tube inlet on top of the junction box.



RXE 119\_F001\_F002\_eng\_2004-06-10