SL-QBM65-1

ROOM PRESSURE SENSOR

Description:
Room pressure sensor for pressure difference measurements, wall mounted.

Intended Use

This sensor is designed for measuring the pressure difference in a room. It is used in laboratories, hospital rooms, isolation wards, etc. for measuring the overpressure and underpressure in a room with respect to a reference room. It is characterised by very high precision, a very short response time and a high contamination resistance.

Key Parameters

- Power supply: 24 V AC/DC
- Frequency: 50/60 Hz
- Power consumption: <0.5 VA
- Current consumption <10 mA
- Measuring range: 0 to 100 Pa
- Output signal: 0 to 10 V
- Static measurement
- IP 54
- Operating temperature: 0 to 70 °C

Installation

The sensor can be mounted on a wall, on a ceiling or in a control cabinet. It should be mounted vertically – the pressure connections should be directed towards the floor and they should be located above the duct connection pipes. This way of installation makes it possible to avoid vapour condensation in the sensor, which could damage the device.
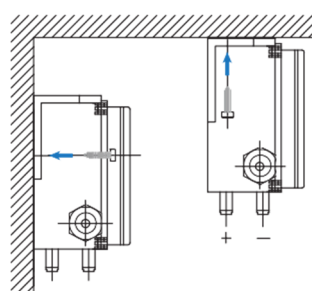
It is not recommended that the sensor is mounted horizontally – with the pressure connections directed sideways. However, if it is necessary, take into account that this type of installation causes a measurement error of up to 10 Pa.

Figure 1. Recommended sensor installation position.

Plastic measuring tubes and stubs are not part of the device. Tubes that are installed should have an internal diameter of 5 mm. The pipe with the higher pressure should be connected to ¨P1¨ or the ¨+¨ connection and the pipe with the lower pressure should be connected to ¨P2¨ or the ¨−¨ connection.
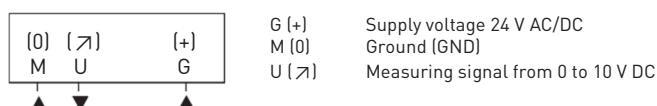

G (+)	Supply voltage 24 V AC/DC	
M (0)	Ground (GND)	
U (↗)	Measuring signal from 0 to 10 V DC	

Figure 2. Sensor connection diagram.
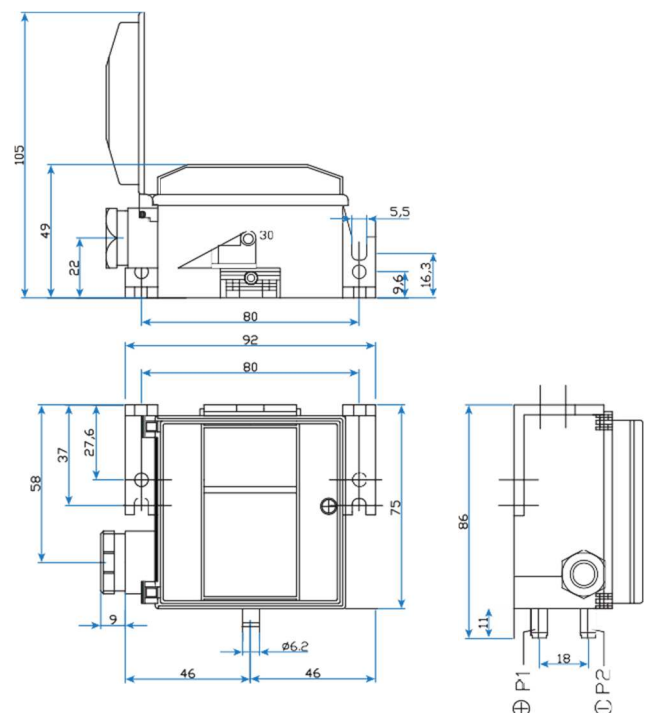
Dimensions

Figure 3. SL-QBM65-1 room pressure transmitter dimensions.

SL-QBM65-1 –
Room Pressure Transmitter

When ordering, please provide information as follows:

SL-QBM65-1

Order example: **SL-QBM65-1**