SIEMENS 1⁹¹⁵



Differential Pressure Sensors

QBE61.2-dp0,5

- Operating voltage AC24 V
- Signal output DC 0...10 V
- . Measuring ranges between 0 and 0.5 bar differential pressure

Use

Sensing of differential pressure in heating, ventilating and air conditioning plants.

The QBE61.2-dp0,5 can be used as a

- · control sensor
- · measuring sensor

with control systems and in connection with building automation systems.

The unit takes hot water and chilled water (without or with additives, such as hydratin or up to 50 % glycol in water).

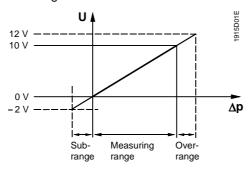
Ordering

When ordering, please give the full type reference.

Gerätekombination

The QBE61.2-dp05 pressure sensor can be combined with all devices or systems capable of processing the DC 0 ...10 V output from the pressure sensor.

The QBE61.2-dp0,5 is an active detector delivering an output signal of DC 0...10 V. The output signal is proportional to the measuring range which has a subrange and an overrange.



Design features

The plastic housing with cover, mounting bracket and the two threaded connection G½A form one unit. The connecting terminals are located under the removable cover. The cable enters through a Pg 11 cable entry gland.

The measuring system consists of a metal diaphragm with permanent magnet and a Hall sensor. No physical contact is made when acquiring the measured value.

Accessories

Description Ordering No.

Water trap pipe

4 286 1652 0

for medium temperatures exceeding 80 °C or below 0 °C and up to 16 bar

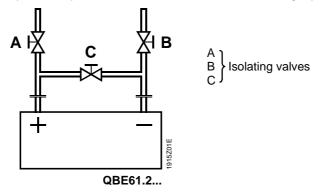
Engineering notes

The QBE61.2-dp0,5 differential pressure detector and all units electrically interconnected must be wired to the same G0. Also refer to the Data Sheets of the units to which the sensor is connected.

With processed water, it should be made certain that the pH-value 10 is not exceeded.

The differential pressure at the sensor must never exceed the permissible overload capacity (see "Technical data").

High static pressure can destroy the detector if it acts on one side of the measuring system only. This can be avoided with the following lay-out.



Mounting and installation notes

Medium temperatures above 80 °C or below 0 °C make it necessary to install a water trap pipe between the pipe work and the sensor.

Mounting orientation: optional, with the exception of the cable entry gland facing upward.

The QBE61.2-dp0,5 is supplied complete with mounting instructions and a drilling template.

Techncal data

 $\begin{array}{lll} \text{Operating voltage} & \text{AC 24 V} \pm 20 \, \% \\ \text{Frequency} & 45 \dots 65 \, \text{Hz} \\ \text{Power consumption} & 2 \, \text{VA} \\ \text{Measuring range} & 0 \dots 0.5 \, \text{bar} \\ \text{Subrange} & -0.1 \dots \, \text{bar} \\ \text{Overrange} & \dots 0.6 \, \text{bar} \\ \text{Overload capacity} & -0.25 \dots +3 \, \text{bar} \\ \end{array}$

Measuring accuracy at 20 °C

including hysteresis max. ± 2 % MR Hysteresis max. 0.5 % MR

Output signal

Measuring range (MR) DC 0...10 V, max. ± 1 mA

Subrange and overrange DC -2...+12 V (-20...+20 % MR)

Permissible cable lengths

Permissible ambient temperature

Operation -15...+50 °C Transport and storage -25...+65 °C

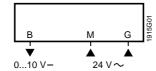
Permissible ambient humidity class D to DIN 40 040

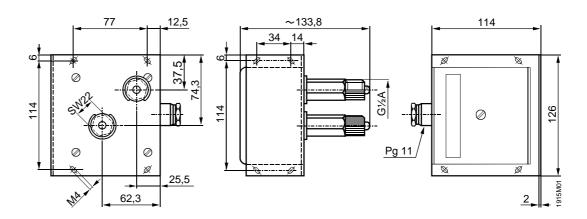
Nominal pressure PN 40

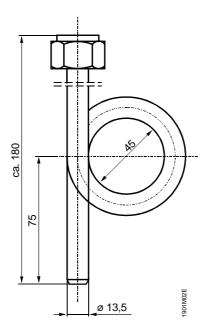
Protection standard of housing IP 42 to DIN 40 050

Weight 1.2 kg

Anschlussklemmen







Water trap pipe

Dimensions in mm