



## Pressure Sensor

for liquids, gases and refrigerants

**QBE9002-P...**

- Piezo-resistive measuring system
- Seal-free welding, no elastomer seals
- Output signal DC 0...10 V
- M12x1 connector
- Inside thread 7/16-20 UNF (Schrader nipple)
- Connecting cable available as accessory

## Use

The pressure sensors are suitable for the measurement of relative pressure in HVAC systems using liquids, gases and refrigerant, ammonia included.

## Type overview

Type	Item number	Pressure range	Output signal
QBE9002-P10U	S55720-S274	-1...9 bar	0...10 V
QBE9002-P25U	S55720-S275	-1...24 bar	0...10 V
QBE9002-P60U	S55720-S276	-1...59 bar	0...10 V

## Ordering and delivery

When ordering, please give name and type reference,  
e.g. Pressure sensor / QBE9002-P10U / S55720-S274.

A connecting cable is not supplied with the pressure sensor. The pressure sensors are supplied in sets of 25.

## Accessories

Connecting cable

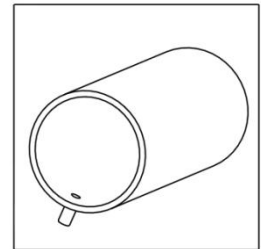
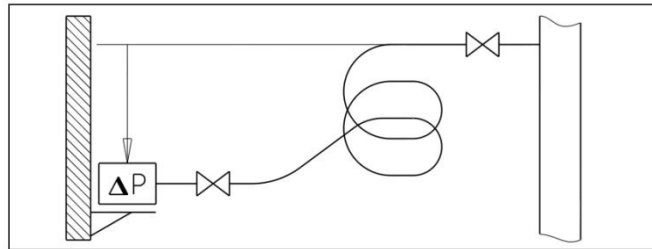
Ordering text: Cable Connector / AQB9000 / S55720-S288

The connecting cables are supplied in sets of 25.

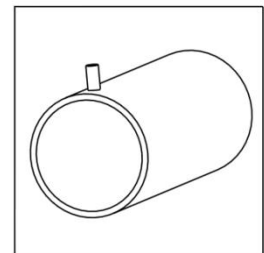
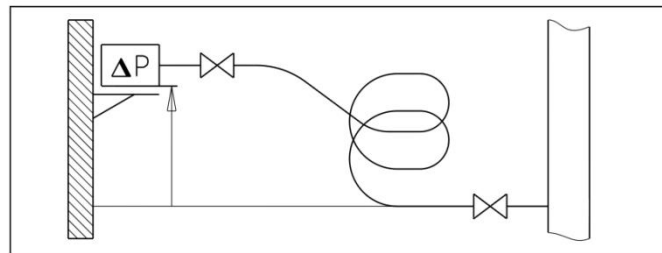
## Installation instructions

The sensors can be installed in any position. The position has no impact on the measurement precision of the sensor.

Installation for measuring pressure in liquids:



Installation for measuring pressure in gases:



## ⚠ Caution

The supply has to be SELV voltage.

The power consumption has to be restricted to maximal 4 A by an adequate circuit breaker.

## Disposal



The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

## Technical data

Electrical interface	Supply voltage	SELV DC 11.5...33 V
	Current consumption	<7 mA
	Output signal	DC 0 ...10 V (load up to $\pm 1$ mA)
Functional data	Pressure range	See "Type overview"
	Typical measurement accuracy: max (including linearity, hysteresis and reproducibility zero point, Full Scale)	< $\pm 0.5\%$ FS (FS = Full Scale)
	Response time	<2 ms
	Nominal pressure	Relative pressure as in "Type overview"
	Tolerable overload	3 x scale end value of measuring range (FS)
	Rupture pressure	6 x scale end value of measuring range (FS)
	Media	Liquids, gases and refrigerants, ammonia incl.
	Medium temperature	-40...+ 135 °C
	Environment	-30...+ 85 °C
	Storage	-50...+ 100 °C
	Maintenance	Maintenance-free
	Installation position	Any
Directives and standards	Product standard	EN 61326-x Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements
	EU Conformity (CE)	CE1T1909xx <sup>*)</sup>
	RCM Conformity	CE1T1909en_C1 <sup>*)</sup>
Degree of protection	Protection degree of housing	IP67 according to EN 60529
	Protection class	III according to EN 60730-1
Connections	Electrical connection	M12x1 connector*
	Connection cable available as accessory	Straight cable box M12x1 with cable three-pole, 2 m, PVC black, stripped
* Accuracy in pressure ranges $\leq 16$ bar only possible if deaeration through cable is ensured		
Weight	Pressure connection	Inside thread 7/16-20 UNF
	Single pressure sensor	85 g
	25 pressure sensors including packaging	2.2 kg
	Connection cable AQB9000	50 g
	25 connection cables including packaging	1.3 kg

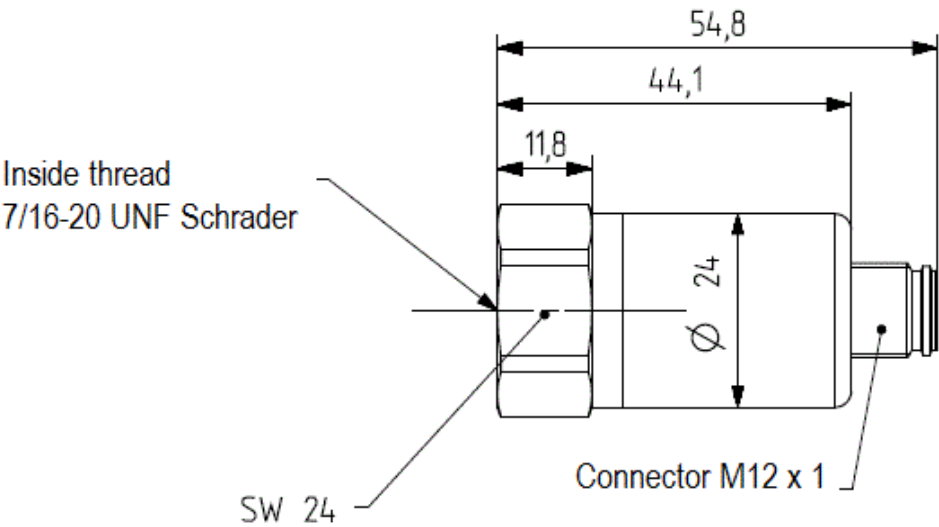
Device circuit diagram

QBE9002-P...

	Connector configuration		Accessories cable M12x1
	Pin	Assignment	Wire color
	1	DC 11.5...33 V (IN)	brown
	3	0...10 V (OUT)	blue
	4	GND	black

Dimension drawings

QBE9002-P...



Dimensions in mm