

Pressure transducer

WFDT66 (Type PMP21)



Data-Sheet



General

The Cerabar is a pressure transducer for the measurement of absolute and gauge pressure in gases, vapors, liquids and dust. The Cerabar can be used internationally thanks to a wide range of approvals and process connections.

Function

The process pressure deflects the metal process isolating diaphragm of the sensor and a fill fluid transfers the pressure to a Wheatstone bridge (semiconductor technology). The pressure-dependent change in the bridge output voltage is measured and evaluated.

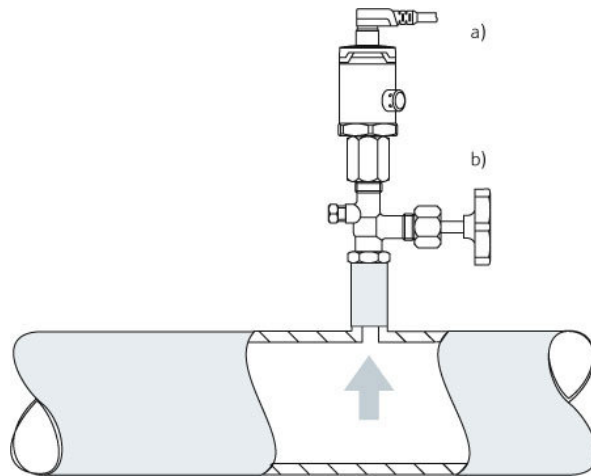


Device features

- Field of Application: Gauge and absolute pressure
- Process connections: Thread ISO 228, also flush-mount, Thread DIN 13, ASME, JIS
- Measuring ranges: From -400 to +400 mbar to -1 to +400 bar
- OPL: max. 0 to +600 bar (depends on the measuring range)
- Temperature: -40 to +100°C
- Reference accuracy: +/- 0,3%
- Supply voltage: 10 to 30 V DC
- Output: 4 to 20 mA
- Material: Housing made from 316L (1.4404)
Process connections made from 316L (1.4404)
Process isolating diaphragm made from 316L (1.4435)

Installation conditions

- Moisture must not penetrate the housing when mounting the device, establishing the electrical connection and during operation.
- Point the cable and connector downwards where possible to prevent moisture from entering (e.g. rain or condensation water)
- Any orientation is possible. However, the orientation may cause a zero point shift i.e. the measured value does not show zero when the vessel is empty or partially full.



Mounting location

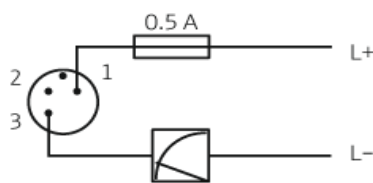
Mount the device with shutoff device above the tapping point so that any condensate can flow into the process

- a) Device
b) Shutoff device

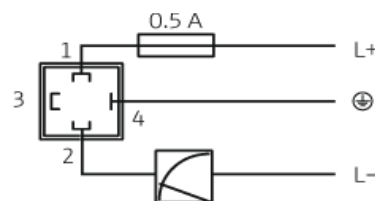
Terminal assignment

4 to 20 mA output

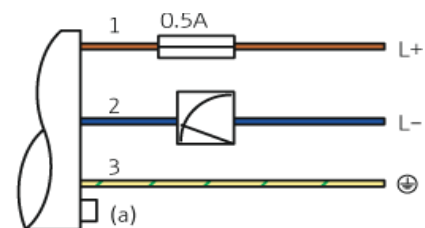
Plug M12



Valve plug



Cable



Cable: 1: brown = L+ / 2: blue = L- / 3: green-/yellow = ground connection / (a): reference air hose

General safety instructions



Power supply

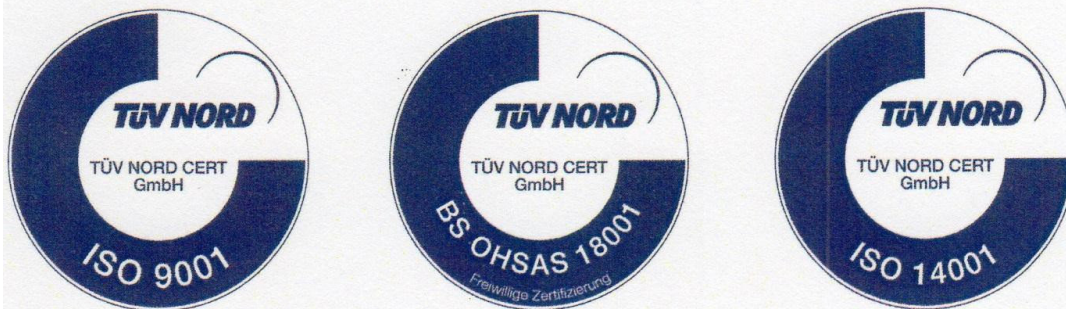
Limitation of electrical safety due to incorrect connection!

- In accordance with IEC/EN61010 a separate circuit breaker must be provided for the device.
- When using the measuring device in hazardous areas, installation must comply with the corresponding national standards and regulations and the Safety Instructions or Installation or Control Drawings.
- All explosion protection data are given in separate documentation which is available upon request. The Ex documentation is supplied as standard with all devices approved for use in explosion hazardous areas.
- Protective circuits against reverse polarity, HF influences and overvoltage peaks are integrated.
- The device must be operated with a 500 mA fine-wire fuse (slow-blow).

GEFA Certificates

ISO 9001 - OHSAS 18001 - ISO 14001

Zusätzlich zum Qualitätsmanagementsystem **ISO 9001** hat die GEFA Processtechnik GmbH jetzt auch für die Bereiche Arbeitsschutz (**OHSAS 18001**) und Umweltmanagement (**ISO 14001**) ein sichtbares Zeichen:



Die **OHSAS 18001** und **ISO 14001** Zertifizierungen sind weltweit anerkannte Standards mit dem Fokus auf Personenschutz, Arbeitssicherheit, Gesundheitsvorsorge und Umweltschutz.