

HIGH TEMPERATURE PRESSURE TRANSMITTER with cooling effect

Pressure range: 0..1 bar and 0..4,000 bar
Output signal: 4...20 mA, 2 wire (+105 °C)
0...10 V, 3 wire (+115 °C)
0.5...4.5 V rat., 3 wire (+145 °C)
Operating voltage: 12..32 V
Ambient temperature: -40 °C to +125 °C
Media Temperature: -40 °C to +180 °C
Type SMK (E): Electronic installed trough cable

- Resistant to pressure peaks
- Shockproof- and vibration-proof
- Insensitive to temperature shock
- Protection system IP 65 according to DIN EN 60 529
- Case and parts in contact with measuring material of CrNi steel

CONSTRUCTION

- Special steel membrane
- Poly-Si- on SiO₂ (thin film resistance)
- Port Configuration G 1/4 " Form E
- Electrical connection: cable (teflon)
- Total error (RT) 0.5 % F.S.
- Mixed signal ASIC
- Length 70 mm
- Weight ca. 160 g

APPLICATIONS

- Motor vehicle Technique
- Hydraulic System
- Pneumatics
- Testing Technology
- Environmental Technique
- Process Control
- Energy- and Water Management

DESCRIPTION

Pressure transmitters of the dimensions: fitting length of 70 mm and a diameter of 22 mm are especially applied where media temperatures of +180 °C may occur. A pressure connection M10 x 1 with HEX 22 guarantees a variety of applications (others on request). Standard scope of delivery includes a 1 m cable without a plug.

The SME pressure transmitters contain only a small number of active components, such as the sensor element, a signal processing ASIC and a U/I converter circuit.

Calibration takes place electronically, so that the Pressure transmitters display a comparably small total error and are stable in the long term. The hermetically welded thin film-measuring cell ensures a high degree of long-term resistance to leakage and stability.

The ASIC is a programmable precision CMOS ASIC with EEPROM data storage and analogue signal path, which is suitable for an extended operating temperature range. The special steel membrane is completely vacuum-tight, extremely burst-proof and can be used with all standard media in hydraulics, pneumatics, environmental technology, process technology, semi-conductor technology and automotive engineering, in as far as they are compatible with special steel. This thereby covers use in standard applications in mobile hydraulics and in other areas of application. The great exactness and the robust, compact structure guarantee a broad range of possible uses in industry. On the basis of the combinability of different mechanical and electronic connections, a variety of different pressure transmitters is offered.

Upon request, a test certificate according DIN ISO 9001:2000 is supplied.

- Subject to alteration -

