



Pressure | Temperature | Level | Calibration

Instrumentation for high-pressure applications



Smart in sensing

Instrumentation for high-pressure applications

Specific materials with high-yield characteristics and special manufacturing processes such as vacuum soldering ensure the high quality of these products, individually matched to your requirements. The process of producing LDPE (Low Density Polyethylene) or EVA (Ethylene Vinyl Acetate) is made at pressures of approx. 3,000 bar, where the temperature curve in the high-pressure tubular and autoclave reactors is an important process variable.

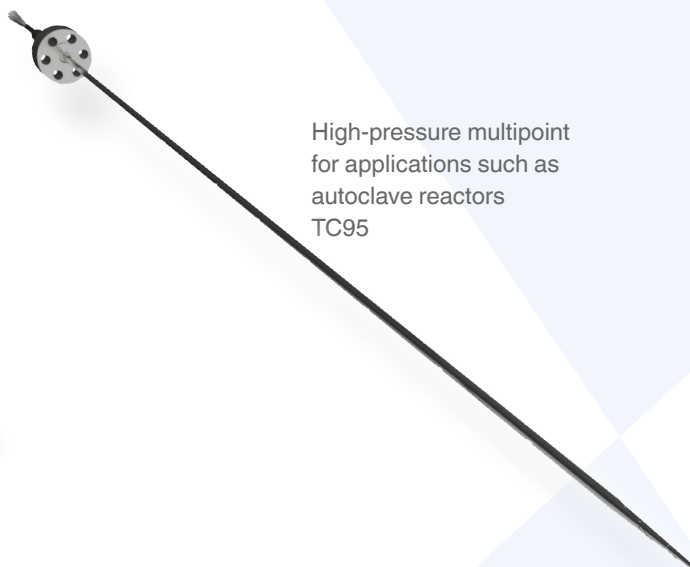
Temperature measurement

High-pressure thermocouple
TC90

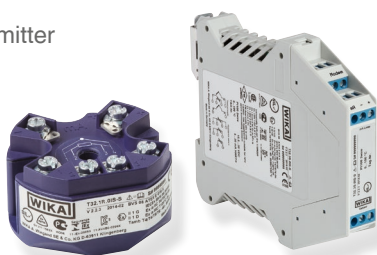


Each high-pressure thermocouple is designed and manufactured in accordance with customer requirements. Through pressure testing up to 6,000 bar, we ensure the high demands on safety and reliability.

High-pressure multipoint
for applications such as
autoclave reactors
TC95



Temperature transmitter
T32



The 4 ... 20 mA/HART® temperature transmitter T32 has a large installed base in petrochemical plants worldwide. Additionally, an ultra-fast version, T32.1R, has been developed especially for LDPE/EVA applications.

- Fast response time
- Universally programmable
- Global approvals for hazardous areas

Available tests and certificates

- 2.2 test report
- 3.1 inspection certificate
- 3.1 material certificate
- 3.2 material certificate
- DKD/DAkkS calibration certificate
- Climatic tests
- Shock and vibration tests
- Response time tests
- Pressure cycle tests
- Pressure strength and burst pressure tests
- IP protection tests
- EMC tests
- Dye penetrant testing
- X-ray testing of components

Pressure measurement

The model IS-3 pressure sensor is available with measuring ranges up to 6,000 bar. A wide range of process connections are available.

- Fast response time
- High shock and vibration resistance
- Global approvals for hazardous areas



Pressure sensor
IS-3

Calibration up to 10,000 bar



Precision digital
pressure gauge
CPG1500

Comparison pump
CPP7000-X

To meet maintenance requirements, a hydraulic comparison pump can be used to generate high pressures and a digital gauge can be used as a reference. Thus high-pressure intrinsically safe pressure transmitters can be calibrated easily in a workshop.

The digital pressure gauge can be utilised for on-site calibration, comparison measurements or for data logging up to 10,000 bar.

Level measurement

Magnetic bypass level indicators allow for clear local indication as well as remote transmission of fluid levels. Each unit is precisely engineered to the fluidic properties of the process media.

Typical applications include level measurement of lubricating oil.



Bypass level
indicator

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You can find further
information here!



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