Modular versatility with universal connection options

KROHNE

OPTIBAR P 1010 C and OPTIBAR P 2010 C – Industrial and hygienic pressure transmitters with long term stability

The OPTIBAR P 1010 C pressure transmitter was designed for general applications in the field of industrial measurement with with pressure ranges up to 250bar.

The OPTIBAR P 2010 C adds to this robust design with cavity-free, hygienic process connections. This provides repeatable and long-term stable measurement even with regular SIP/CIP cleaning, while simultaneously guaranteeing a high degree of chemical resistance to process and cleaning solutions.

The modular design of both series of devices allows you to combine a variety of process connections, pressure ranges and electrical connection variants.

OPTIBAR P 1010 C

OPTIBAR P 2010 C

Precision.

Despite their compact design, the OPTIBAR P 1010 C and OPTIBAR P 2010 C pressure transmitters feature an extraordinary baseline deviation after cut-off point setting of < ±0.25% for this device class, which covers linearity, hysteresis and non-repeatability. The error band of the temperature influence on the zero point and the measuring span is within the compensated temperature range at < ±0.75%.

Flexibility.

The joint device platform makes it possible to freely combine a wide variety of device options such as electrical connections, diaphragm material, fill oil, measuring range and process connection while observing fundamental device characteristics. A wide variety of pressure applications can now be carried out simply and efficiently with one device design.

Hygiene.

Thanks to its flush process diaphragm, the OPTIBAR P 2010 C is particularly well suited to pressure measurement tasks covering the viscous and crystallising media found in sterile process technology . In CIP compatible plants, however, the process connection must also comply with the advanced requirements.

The OPTIBAR P 2010 C product line offers most connection options including dairy (DIN11851), clamp ISO2852, Varivent®, BioConnect® and many more. All of these connections guarantee a defined sealing system, and ensure proper centering due to a mechanical guide and a cavity-free seal to the inside of the process pipe.

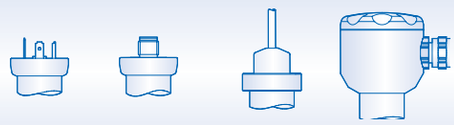
If the process temperature is consistently above 125°C, additional cooling pipe can be used to protect the sensitive electronics from process temperatures of up to 300°C.

Highlights:

- Baseline deviation ± 0.25%
- Long-term stability a ±0.1%/year
- Outstanding temperature stability at zero point
- Measuring ranges from 100mbar to 250bar
- Modular construction
- Hygienic process connections
- Protection class up to IP68
- cULus listed
- 3A, EHEDG conform

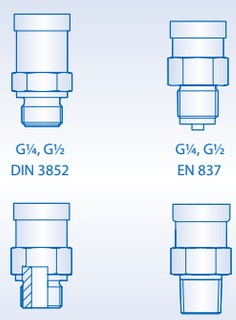
Modular device system

Connection plug and field housing



ISO 4400 | M 12 x 1 (4-pin) | Cable output | Field housing

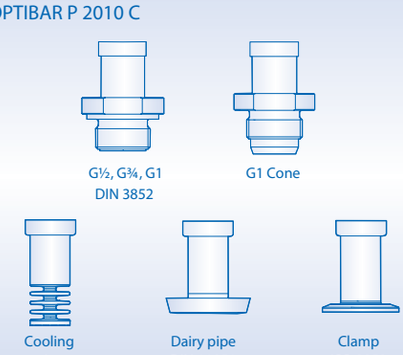
Process connections OPTIBAR P 1010 C



G¼, G½ DIN 3852 | G¼, G½ EN 837

G½ DIN 3852 (10mm/0.39" bore) | Thread ANSI ¼NPT-M ½NPT-M

Hygienic process connections OPTIBAR P 2010 C



G½, G¾, G1 DIN 3852 | G1 Cone

Cooling pipe | Dairy pipe DIN 11851 | Clamp ISO 2852

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