

# PS 10 TR - Pressure sensor



High-accuracy Fiber Bragg Grating (FBG) based small (19 mm diameter) pressure sensor.

This pressure sensor is specifically designed for liquids and gases within a range from 0 to 10 Bar(G).



- Double ended compact sensor
- Extremely small drift (<0.5%/year)
- Self-compensated on temperature
- Very small robust sensor with high long term stability
- Other pressure ranges possible on request
- Explosion safe (no electricity)

Parameter	Performance
<b>Sensitivity</b>	1000 pm/Bar $\pm$ 200pm/Bar
<b>Measurement range</b>	0-10 Bar(G)
<b>Accuracy</b>	<0.1 Bar (<1% Full Scale)
<b>Precision</b>	<0.05 Bar (<0.5% Full Scale)
<b>Max pressure</b>	12 Bar
<b>Burst pressure</b>	50 Bar
<b>Operational temperature range</b>	-20 to +80 °C
<b>Weight</b>	110 g
<b>Interface</b>	G1/8 BSPP male thread (other interface or request)
<b>Material</b>	SS 316L
<b>Protection</b>	IP 68
<b>FWHM</b>	< 0.5 nm
<b>Reflectivity</b>	40 %
<b>Insertion loss</b>	< 0.1 dB
<b>FBGs</b>	2
<b>Cable length <sup>1</sup></b>	1 m
<b>Connector options</b>	FC/APC, LC/APC, open end

<sup>1</sup> Other cable length on request.

## Sensor dimensions (mm)

The sensor is equipped with a male G1/8 connection, which can be used to connect it to the pressure chamber or line.

