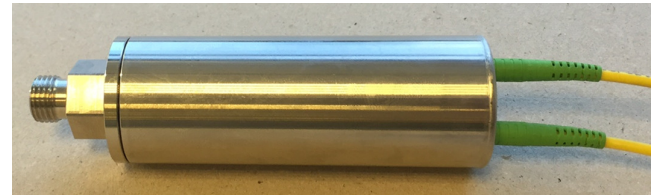


# High Accuracy Fiber Optic Pressure Gauge

## Description

High-accuracy pressure gauge based on Fiber Bragg Grating (FBG) technology allowing for passive (electrical power-free) remote monitoring of absolute, differential or relative pressures, for both liquid and gaseous environments.



## Key Features

- 2-fiber port configuration allowing for chain formation with a variety of FBG-based sensors on single fiber line
- Extremely low drift (<0.5%FS/year) with patent pending technology
- Very high accuracy and stability
- Customizable to customer requested pressure range
- Ruggedized for harsh environments
- Absolute, relative or differential versions available

## Application Areas

- Industrial process control
- Machine monitoring
- (Hazardous) tank monitoring
- Geotechnical applications
- Marine & offshore applications

<b>Performance</b>	
Measured parameter	Relative / Absolute / Differential Pressure (depending on request)
Pressure Range	+/-1 bar relative & differential / 0 – +3 bar absolute <sup>1</sup>
Sensitivity	>6 pm/mbar <sup>1</sup>
Temperature Range (operation environment)	-20 – +60°C <sup>1</sup>
Resolution	0.1% full scale <sup>2</sup>
Accuracy	1% full scale <sup>2,3</sup>
Humidity Range (operation environment)	0 – 95% Relative Humidity
Burst Pressure	up to 5 bar <sup>1</sup>
Measurement rate	up to 100 measurements/second <sup>1,2</sup>
<b>Physical Specifications</b>	
Dimensions	34 mm Ø, 101 mm <sup>1</sup>
Weight	480 grams, <sup>1</sup> excluding cable
Material	Stainless steel 316 L
Pressure connection	G1/4 (1 or 2-pressure port configuration possible) <sup>1</sup>
<b>Optical Specifications</b>	
Fiber Transducer Type	Fiber Bragg Grating
Full Width at Half Max (-3 dB)	<150 pm
Reflection	>40% <sup>1</sup>
Side Lobe Suppression	>10 dB <sup>1</sup>
Optical Connection	FC/APC, <sup>1</sup> double sided for chain, cable length on request
Transmission Loss	<2 dB
Array configuration	Up to 30 sensors / fiber <sup>2</sup> (depending on interrogator settings and operation range)

<sup>1</sup> Different configurations and ranges possible upon request

<sup>2</sup> Only guaranteed when used with a **FAZ TECHNOLOGY Fiber Optic Interrogator**

<sup>3</sup> Maintained for temperature changes <10°C /hour and based on once-a-year zero-calibration