

FBG Pressure Sensor PT-01

FBG Pressure Sensor PT-01 is used for accurate measurement of fluid pressure such as liquid and gas, it is based on an industrial-grade design and uses a unique pressure elastic element as a sensing substrate, the sensor has built-in temperature compensation FBG, so as to eliminating the environment temperature influence, and get the accurate pressure measurement.

The PT-01 is embedded in hydraulic structures, bedrock or installed in piezometric pipes, boreholes, dams, pipes and pressure vessels to measure water pressure of pores or liquid level, it can also be used for dam seepage and seepage pressure monitoring, pressure vessel measurement, oil, water, gas pressure measurement, water level monitoring.

Key Features

- High precision and reliability
- Intrinsically safe
- Wide measuring range
- Quasi-distributed measurement
- Built-in temperature compensation

Applications

- Pore water pressure, water table depth
- Dam seepage and seepage pressure
- Dangerous goods storage tank pressure
- Tunnel, underground building water level
- Slope, tailing reservoir groundwater level



Specifications

Parameter	Unit	Value
Center Wavelength	nm	1460 ~ 1610
Range	MPa	1 ~ 60
Resolution	MPa	0.05% F.S.
Accuracy	MPa	0.5% F.S.
Temperature Compensation	--	Built-in
Material	--	Stainless steel or Inconel
Dimension	mm	Φ26 x 137
Installation	--	Bolted, Embedded
Pigtail Length	m	Φ3mm armored cable, 1m at single end (dual fiber), or customize
Optical Connector	--	FC/APC, or customize
Operating Temperature	°C	-20 ~ +80