

FBG-Differential Pressure Sensor

Applications

- Ground water elevations
- Pore water pressures
- Pump tests
- Water pressures behind tunnel linings
- Hydraulic pressures in tanks and pipelines
- Wick drain efficiency

Features

- Immune to EMI and short circuits
- Low noise long distance signal transmission



Description

The body is made of 302(316) stainless steel. An FBG is used to sense the deflection of a diaphragm resulted from pressure variations. A dummy FBG is used for temperature measurement and compensation. The measurement range can be varied to fit the need in the field.

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Specifications	FBG-Differential Pressure Sensor
Physical Properties	
Operating Temp. range	0 to 80°C
Pressure measurement range	0.8, 1.5MPa
Resolution ¹	<0.025% Full scale range
Accuracy	±0.1% Full scale range
Connectors	FC/APC, SC/APC, or customer specified
Length	55mm
Dimensions	φ25mm
Weight	~330g
Optical Properties	
Peak Reflectivity (Rmax)	>70%
FWHM (-3dB point)	0.25nm(±0.05nm)
Notes:	
1. Dependent on FBG interrogator.	

Ordering Information	FBG5200-1XX-08-15YY
1XX: Cable 1, Length & Connector	
1: 1m Standard, Cable Length	
FC: FC/APC Connector	
SC: SC/APC Connector	
LC: LC/APC Connector	
YY: FBG Wavelength	
Standard: 24, 30, 36, 42, 48, 54, 60, 66	