

5000 Series

FBG-High Precision Piezometer

Applications

For precision water level measurement and monitoring of

- Weirs
- Tanks
- Stream levels
- Reservoir levels
- Laboratory tests, such as triaxial test.

Features

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



Description

The body this high precision piezometer is made of 316 stainless steel. An FBG is used to sense the deflection of an enlarged diaphragm resulted from pressure variations. The design enables pressure measurement with substantially increased sensitivity. A dummy FBG is used for temperature measurement and compensation. The measurement range can be varied to fit the application need.

CITPO TECHNOLOGIES CO., LTD. No. 22, Ln. 92, Sec. 3, Jingguo Rd., Hsin Chu City 300 Taiwan Tel: +886 3 5403366 Mobile: +886 920849660 E-mail: sales@citpo.com.tw http://www.citpo.com.tw

FBG-High Precision Piezometer







FBG5700 installed in a V-notch weir.

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Specifications	FBG-High Precision Piezometer
Physical Properties	
Operating Temp. range	0 to 80°C
Pressure measurement range	0.05MPa
Resolution	<0.025% Full scale range
Accuracy	\pm 0.25% Full scale range
Connectors	FC/APC, SC/APC, or customer specified
Fiber type	Armored, PVC coated \geq 1mm
Length	60mm
Dimensions	φ55mm
Weight	~530g
Optical Properties	
Peak Reflectivity (Rmax)	>70%
FWHM (-3dB point)	0.25nm(±0.05nm)
Notes:	

Ordering Information	FBG5700-1 <mark>XX</mark> -005-15 YY
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: 12, 18, 24, 30, 36, 42, 48, 54, 60,	
66, 72, 78, 84	

Tel: +886 3 5403366 Mobile: +886 920849660 E-mail: sales@citpo.com.tw http://www.citpo.com.tw