

FBG-Small Diameter Piezometer

Applications

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

Features

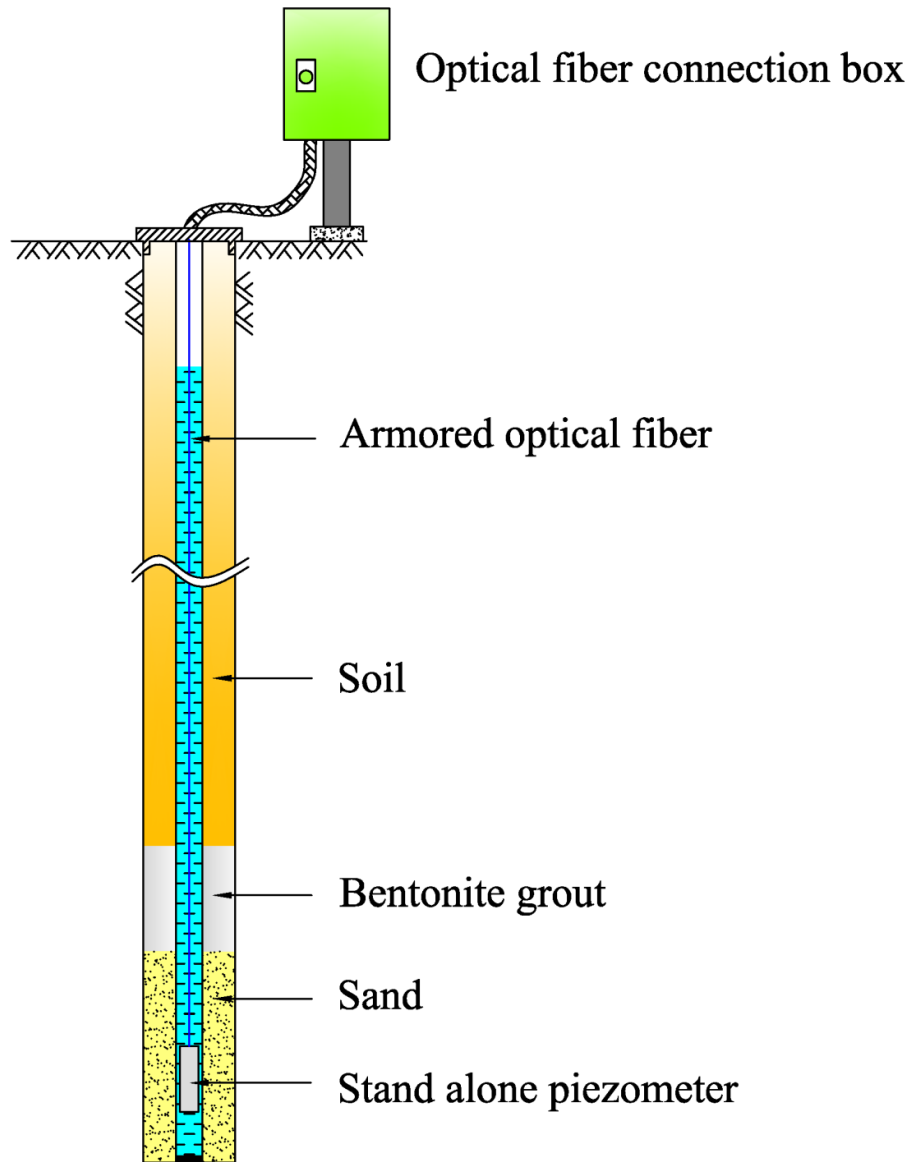
- Immune to EMI and short circuits
- Low noise long distance signal transmission



Description

The body this down-sized piezometer is made of 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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FBG5110 installed in an open pipe.

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Specifications	FBG-Small Diameter Piezometer
Physical Properties	
Operating Temp. range	0 to 80°C
Pressure measurement range	0.8MPa
Resolution ¹	<0.025% Full scale range
Accuracy	±0.25% Full scale range
Connectors	FC/APC, SC/APC, or customer specified
Fiber type	Armored, PVC coated ≥ 1mm
Length	75mm
Dimensions	φ19mm
Weight	~330g
Optical Properties	
Peak Reflectivity (Rmax)	>70%
FWHM (-3dB point)	0.25nm(±0.05nm)

Notes:

1. Dependent on FBG interrogator.

Ordering Information

FBG5110-1XX-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: 12, 18, 24, 30, 36, 42, 48, 54, 60,

66, 72, 78, 84