

Fiber grating soil pressure sensor

Description

FBG-DP-01 is one of patented products developed based on patent for utility model "Fiber grating packaged soil pressure sensor. This product features strong durability, satisfied reliability and stable stability and has temperature sensing and self-compensation functions. It is applicable to long-term structure health monitoring.



Feature

Robust and high reliability Monitoring of compression as well as tension possible

Watertight and capable of service in harsh environment

Specification

Model	FBG-SP-01
Diameter	160mm
Thickness	25mm
Range	0.6Mpa
Accuracy	<3%
Resolution	0.66 % (to be concerned by interrogator)
Repeatability	<1.32 %
Linearity	<0.66 %
Hysteresis	<2.45 %

wvl.range	1510nm to 1590nm
Temperature drift	<3 %
Reflection	≥ 90%
Fiber Pigtail	Armored cable FC/APC
Durability	>20year
Layout methods	directly embedding
Application	Monitoring the surface pressure and the internal free field pressure of soil structure