

FBG Temperature Sensor ST-01

FBG Temperature Sensor ST-01 uses stainless steel sleeve packaging technology, which has good anti-corrosion and sealing performance. High-strength armored optical cable is used for fiber lead in and out, which is suitable for harsh measurement environment, can be directly buried in concrete structure for long-term temperature monitoring. The ST-01 can be used for temperature monitoring on either the surface or inside of different structures, and can be used for tunnel fire protection, buried temperature measurement, etc.

Key Features

- High precision and high resolution
- Superior performance in harsh environments and resistance to mechanical fatigue
- Free from electromagnetic interference
- Stainless steel metal structure package
- Surface mounted or embedded installation
- Widely application and long service life

Applications

- Quasi-distributed temperature monitoring of civil engineering structures such as bridges, dams, tunnels, buildings, etc.
- Temperature-sensing fire detection and automatic alarm monitoring in industrial engineering
- Used as temperature compensation for other sensors such as strain, pressure, displacement, etc.



Specifications

Parameter	Unit	Value
Center Wavelength	nm	1460 ~ 1610
Range	°C	-20 ~ +80
Resolution	°C	0.1
Accuracy	°C	1
Material	--	Stainless steel
Dimension	mm	Φ8 x 63
Installation	--	Paste, Embedded
Pigtail Length	m	Φ3mm armored cable, 1m at single end, or customize
Optical Connector	--	FC/APC, or customize
Operating Temperature	°C	-20 ~ +80