

## FBG Patch Strain Sensor

### Description

Utilizing Fiber Bragg Grating (FBG) measurement technology combined with T&S's patented sensor packaging technology, the FBG patch strain sensor enables precise micro-strain measurements without the need for calibration.

### Features

- Immune to electromagnetic interference
- Compact size and lightweight design
- Long operational lifespan
- Easy to install



### Specification

Performance Parameters	Unit	Specification
Strain Coefficient	pm/ $\mu\epsilon$	~1.2
Strain Error	%	<1
Operating Temperature	°C	-40 - +80
Strain Range	$\mu\epsilon$	-2500+2500
Gauge Length	mm	22±1
Mechanical Parameters	Unit	Specification
Dimensions	mm	34.5×8×0.8
Weight	g	~2
Material	-	Stainless steel
Installation	-	Spot welding or adhesive bonding
Fiber Type	-	SMF-28e
Protective Sleeve Type	-	Φ0.9mm tubing
Pigtail Length	m	2 on each side
Optical Parameters	Unit	Specification
Center Wavelength	nm	1525 ~ 1565
Reflectivity	%	>75
Half-Power Bandwidth	nm	<0.3
Side Mode Suppression Ratio (SMSR)	dB	>15
Connector	-	FC/APC