

# TI 2000 T - Tilt / Inclination sensor



Fiber Bragg Grating based single axis tilt / inclination sensor, specifically designed to measure long term angular variations of large structures.

The highly sensitive fiber optic tilt sensor has an angular measurement range of 3° (+1.5° to – 1.5°) and is temperature compensated to ensure high stability.

- Extreme sensitivity
- Double ended
- Robust stainless-steel design for harsh environment
- Intrinsically temperature compensated



Parameter	Performance
Sensitivity	2100 pm/deg. ± 150 pm/deg.
Accuracy	3 mdeg. / 52 µm/m
Measurement range	3 deg. (-1.5 deg to +1.5 deg)
Response time	< 3 sec
Weight	2.1 kilograms
Material	1.4404 (SS 316L)
Operational temperature range	-30 to +80 °C
Protection	IP 67
FWHM	< 0.5 nm
Reflectivity	> 50 %
Insertion loss	< 0.1 dB
FBGs	2
Connector options	FC/APC, LC/APC, open end <sup>1</sup>

1. Other connector options available on request.

## Mounting instructions

It is recommended to fasten the sensor on a flat surface using an M5 bolt as indicated.

Maximum torque to apply is 5 Nm.

