

[OESEN-HTM-400, 700]

High Temperature Fiber Bragg Grating Sensor and Sensor Array

Applications:

- Bridges and highway
- Big buildings
- Dams
- Petroleum plants and pipelines
- Oil fields
- Electrical transformers
- Aerospace industry
- Biomedical
- Environment



Fig1. High Temperature FBG Sensor

Product description:

A low cost high temperature fibre Bragg grating sensor and sensor array are available at O/E LAND INC. Based on our new "High Performance, High Temperature Fibre Bragg Grating Technology", the high temperature FBG sensors are with model number of "OESEN-HTM-400" and "OESEN-HTM-700" for working at 400°C and 700°C, respectively. The array version can have up to 32 sensors in one array.

The fibre cable is packaged with stainless steel tubing to stand high temperature. Standard FC/PC connectors are used for easy plug-in connection with light sources and FBG sensor interrogators.

Product specifications:

Parameters	OESEN-HTM-400	OESEN-HTM-700
Center wavelength (nm)	1310, 1550	
FWHM (nm)	0.2 ± 0.1	
Reflectivity (%)	> 75	
Temperature range (°C)	-50 - +400	-50 - +700
Resolution (°C)	0.5	1
Precision (°C)	± 1	± 2
Size (mm)	Ø3x90	
Material	Stainless steel	
Fibre cable	1m armoured cable	
Sensor array	Up to 32 FBGs	

Note: All specifications are subject to change without notice.

* Some limitations apply.

** Tuning range can significantly vary depending on FBG specifications.

*** Recommended values. The ambient environment temperature can limit the performance, incl. the tuning range