

## Standard Temperature Fibre Bragg Grating Sensor (OETMS-100, 200, 300)

Low cost fibre Bragg grating temperature sensors are available at **O/E LAND INC.** Based on our design, these FBG temperature sensors can be widely used in construction, aerospace, electrical, petrochemical, biomedical, nuclear power stations and other industrial applications.

The **OETMS-100** has stainless steel body for harsh environments; the **OETMS-200** with Teflon material and the **OETMS-300** with ceramic material are suitable for non metal applications like high voltage transformer, micro wave and strong electromagnetic fields, as well as high temperature applications.

The fibre cable can be packaged with armored cable to protect from damage in a harsh environment like rust, shock, corrosion, vibration, and sharp mechanical object.

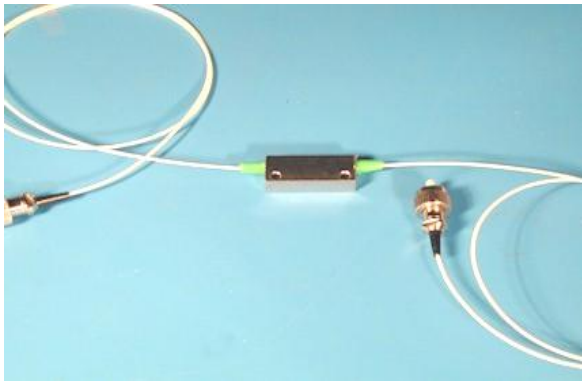
### Specifications:

	OETMS-100A	OETMS-100B	OETMS-200	OETMS-300
Center wavelength (nm)	1310, 1550			
FWHM (nm)	0.2 ± 0.1			
Reflectivity (%)	> 75			
Temperature range (°C)	-50 - +120			
Resolution (°C)	0.1			
Precision (°C)	± 0.5	± 0.5	± 0.3	± 0.3
Size (mm)	10x25x6	φ4x30	10x45x6.5	φ(2,4,6)x30
Material	Stainless steel	Stainless steel	PTFE(Teflon)	Ceramic
Fibre cable	900 μm, 3 mm	3 mm	3mm	900 μm

*Note: All specifications are subject to change without notice.*

### Applications:

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



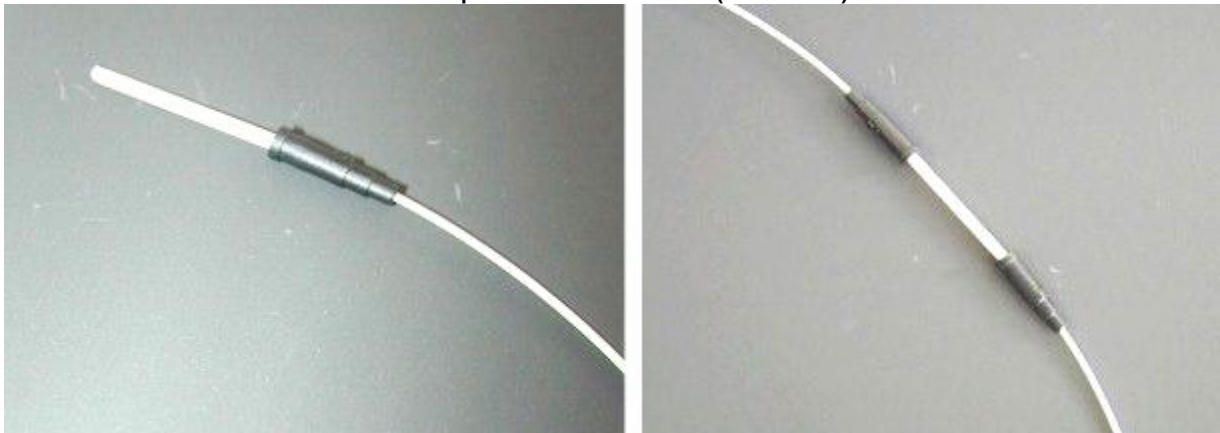
**FBG Temperature Sensor OETMS-100A**



**FBG Temperature Sensor OETMS-100B**



**FBG Temperature Sensor in PTFE (OETMS-200)**



**FBG Temperature Sensor in Ceramic (OETMS-300), reflection and transmission types**

Please feel free to contact us at (514) 334-4588 or at [sales@o-eland.com](mailto:sales@o-eland.com) for more information on this product.