

[OESEN-FSS-400]

## TDM-FBGs Sensor Interrogator



### Features:

- TDM based FBG sensor interrogator
- Simultaneously monitor up to 20 FBG sensors per channel.
- 1, 2, 4, 8, 16, 32 channels option.
- Spectrum measurement over 4 nm with 20 pm Scan-to-scan repeatability.
- Reflectance measurements (Reflectivity from 0.1% - 90%)
- High power for long distance measurement
- 40 dBm dynamic range.
- Display and storage measured FBG sensor central wavelengths.
- Display tension, pressure, temperature and other parameters in text and history curves.
- USB 2.0 connection between instrument and computer
- Built-in battery option available as portable instrument for field test application

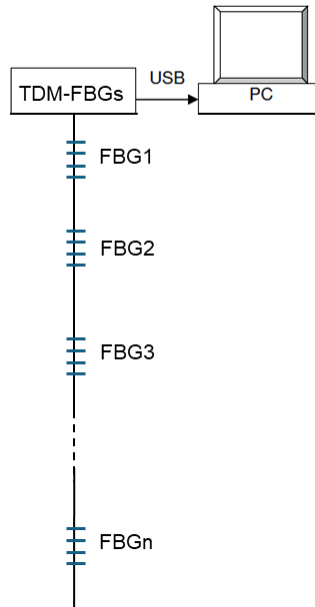
### Product description:

The OESEN-FSS-400 FBG Fiber Sensor Interrogation System with model name "TDM-FBGs" from O/E Land Inc. is a series of low-cost, high performance grating interrogation systems for various engineering and civil applications. The instrument is compact, PC-based, highly accurate, and allows large dynamic range measurement that provides FBG sensors monitoring with the ability and accuracy of optical spectrum analyzers.

The system includes an external device, PC based application software and an optional high-performance laptop. The user can choose 700nm, 800nm, 900nm, 1010-1100nm, 1310nm, 1480nm, 1550nm and 2000nm spectrum ranges. With built-in laser source, no additional light source is needed.

Product typical application:

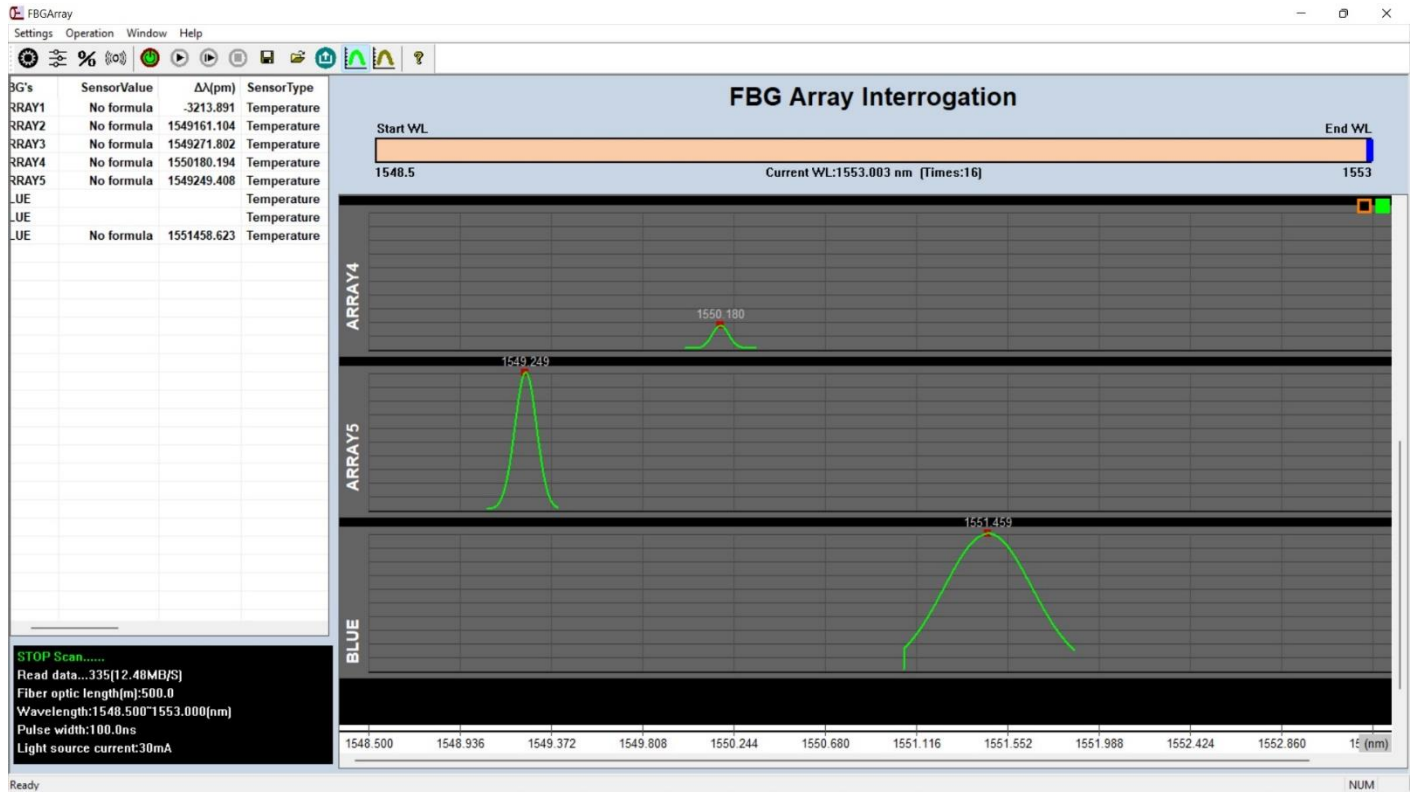
Reflection Measurement



Product specifications:

Parameter	Unit	OESEN-FSS-400
Optical Channel number	-	1, 2, 4, 8, 16, 32
Maximum FBG sensors	-	More than 20 per channel
Spectrum wavelength band	nm	800 – 1100, 1310, 1480, 1550-2000nm
Built-in laser output power	mW	1.0 ~ 20.0
Wavelength range	nm	~ 4
Scan-to-scan repeatability	pm	Typ. 20
Wavelength resolution	pm	1
Dynamic range	dBm	40
Scan speed	min	< 1
Scan method	-	Single, multiple or Auto Timing
Typical parameters of FBGs	-	Reflectivity: 0.1%-80%, FWHM: 0.1-0.3nm
Optical Connector	-	FC/APC
Interface	-	USB 2.0
Operation temperature	°C	0 ~ 40
Storage temperature	°C	-5 ~ 65
Power supply	-	AC 100~240V, or built-in battery
Dimensions (WxDxH)	mm	255 x 245 x 110

User interface:



Ordering information:

OESEN-FSS-400-XX-YYYY	XX: Channel number	YYYY: Wavelength range
	01: One channel 08: 8 channels	1300: 1310nm range 1480: 1480nm range 1500: 1550nm range
Example:	OESEN-FSS-400-01-1550	