

[OEFSS-200]

Inter-FBG Fiber Sensor Interrogating System



Features:

- Simultaneously monitor up to 5 FBG sensors per channel.
- 1, 2, 4, 8 channels optional.
- Spectrum measurement over 5.0nm with 10pm Scan-to-scan repeatability.
- Both reflectance and transmission measurements are available.
- 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

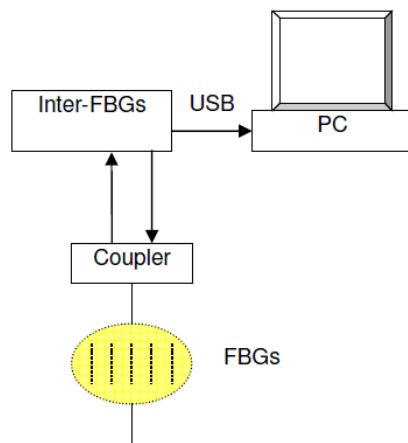
Product description:

The OEFSS-200 Inter-FBG Fiber Sensor Interrogation System from O/E Land Inc. is a series of low-cost, high performance fiber Bragg grating interrogation systems for various engineering and civil applications. It is a compact, PC-based, high accuracy, large dynamic range measurement instrument that provides FBG sensors measurement ability and accuracy optical spectrum analyzing ability.

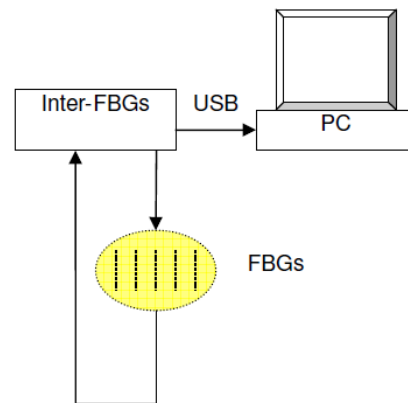
The system includes an external device, PC based application software and an optional high-performance laptop. The user can choose 1310nm, 1480nm and 1550nm spectrum ranges. With built-in laser source, no additional light source is needed.

Product typical application:

Reflection Measurement



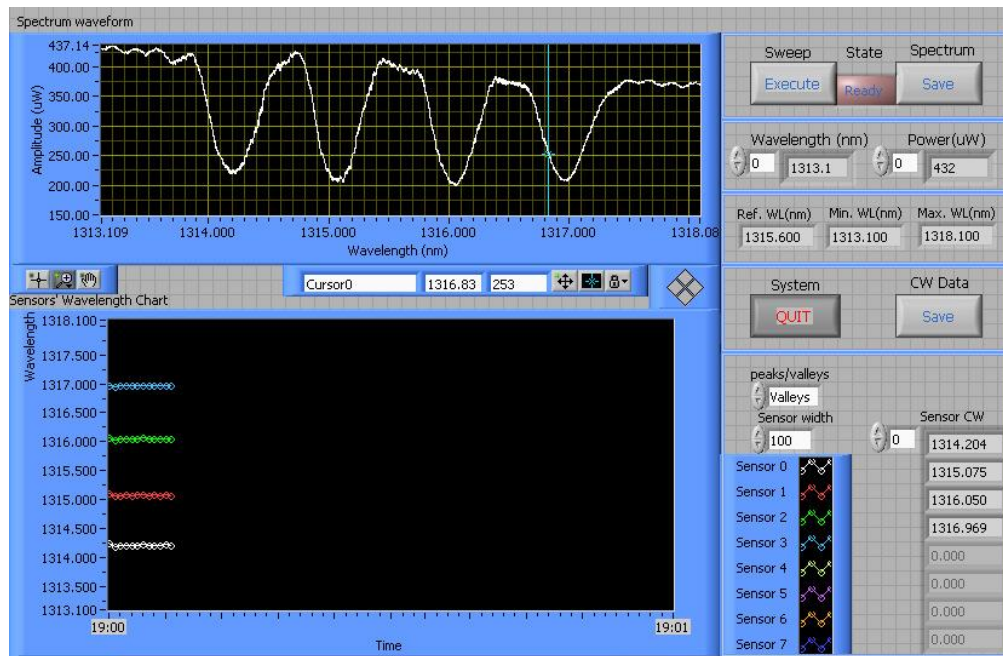
Transmission Measurement



Product specifications:

Parameter	Unit	OEFS-200
Optical Channel number	-	1, 2, 4, 8
Maximum FBG sensors	-	5 per channel
Spectrum wavelength band	nm	1310 or 1480 or 1550
Built-in laser output power	mW	1.0 ~ 20.0
Wavelength range	nm	5.0
Scan-to-scan repeatability	pm	Typ. 10
Wavelength resolution	pm	1
Dynamic range	dBm	40
Scan speed	min	1
Scan method	-	Single or Auto Timing
Typical parameters of FBGs	-	Reflectivity: 90%, FWHM: 0.25nm
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:

OEFS-200X-YYYY:	X: Versions	YYYY: Wavelength range
	A: Standard software with wavelength display only B: Wavelength, temperature and strain display	1300: 1310nm range 1480: 1480nm range 1500: 1550nm range
Example:	OEFS-200A-1550	