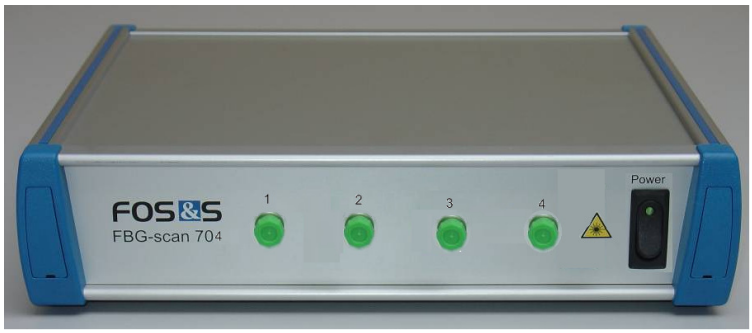
FBG-scan 804

Description

The FBG-Scan 804 is a dynamic, high accuracy measurement device for Fibre Bragg Grating (FBG) sensors. The system can measure up to 4 optical channels with 40 FBG sensors per channel. Each sensor can be monitored with a scan rate of 1KHz.



The system contains a broadband light source and performs spectral analysis by means of an InGaAs detector array and a spectrometer platform. The system is delivered together with the 'ILLumiSense Wave' software which exists of an user friendly user interface to read out the spectral information from a laptop over USB 2.0 and calculate the peak wavelengths real time. The internal optical switch is controlled over RS232 communication.

Features

- Fibre optic measurement device for FBG sensors.
- High dynamic range
- High number of sensors
- High wavelength accuracy.
- Excellent wavelength repeatability

Laser Safety Information

This device is a Class 1 laser product according to IEC 60825-1 (2001).

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Standard specifications

Parameter	FBG-Scan 804
Wavelength range	1515-1590 nm
Number of Bragg sensors	160
Number of channels	4
Wavelength repeatability	±1 pm
Absolute Wavelength accuracy (EOL)	±40 pm (Typ. ±25)
Relative Wavelength accuracy	±20 pm (Typ. ±15)
Dynamic range	30dB with user selectable
Scan and report time	250 Hz
Optical connector	FC/APC
Power supply	5 VDC
Operating temperature	10 °C – 40 °C
Operating Humidity	0 % to 80 %, non-condensing
Storage Temperature	-10 °C to 60 °C
Storage humidity	0 % to 95 %, non-condensing
Dimensions	260 mm x 230 mm x 60 mm
Spectrometer	USB2.0
Optical switch	RS232
Laser Class (IEC 60825-1)	1

Ordering information

F	B	G	-	S	C	A	N	-	8	0	4

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