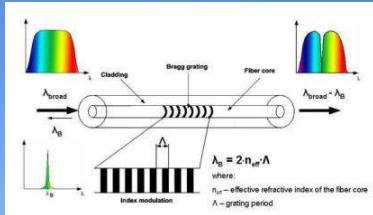


FBG INTERROGATOR WITH LARGE WAVELENGTH RANGE

The FBG-Scope UC – IBS0.2 interrogator is designed for a large scale application and can measure up to 450 FBGs distributed on multiplexed optical channels. The device covers a wide wavelength range with an excellent resolution



MEASURABLE PARAMETERS

- Temperature
- Strain
- Vibration
- Pressure
- Displacement
- Inclination

GENERAL FUNCTIONALITIES

- Wide wavelength range to monitor a large number of sensors
- Can be used as a high-resolution spectrometer
- Standard LabVIEW based software interface for wavelength recording
- Customized graphical interface for temperature measurement

APPLICATIONS (Monitoring)

- Civil engineering structures
- Energy generation and transportation
- Metallurgical process
- Railway and roadway infrastructure



FBG INTERROGAOR WITH LARGE WAVELENGTH RANGE

OPTICAL SPECIFICATIONS

Number of optical channels	1, 2, 4, 8, or 16
Number of sensors per channel	Up to 70
Wavelength range	1510nm - 1590nm
Scan frequency	Up to 3 KHz
Dynamic range	30 dB
Resolution $1\sigma/1mn$	1 pm
Repeatability	Typical 3 pm, max 5 pm
Temperature drift	Typical 1 pm/°C, max 3 pm/°C
Optical connectors	FC/APC

ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	0°C to + 40°C
Communication interfaces (*)	USB 2.0
Dimensions	300 mm x 261 mm x 134 mm
Weight	2 kg
Power Supply	5 VDC (adapter for 230 V included)
Power Consumption	20 W Max

The best cost/performance ratio



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