



General description

New Ultra Compact Single channel Fiber Bragg Grating Sensors Interrogation System:

- ✓ **FAST**
- ✓ **SMALL**
- ✓ **LIGHT WEIGHTED**
- ✓ **LOW POWER CONSUMPTION**
- ✓ **USB INTERFACED**
- ✓ **LOW COST**

Software and Communication

System interfacing and data storage on the host computer are made easy by the USB Communication Interface through a simple serial command set. A user friendly LabView™ driver is also available.

Sensors

4 FBG sensors can be addressed on the same fiber. The Sensors sampling rate is as fast as 2000 Hz each.

Applications

Measurement and diagnostics of

- Vibrations
- Deformation
- Temperature
- Ideal for use "in field"

Benefits

- Fast Acquisition Rate
- No Moving Parts
- No Scanning Devices
- Built-in Optical Source
- USB interface
- LabView™ driver
- Low cost

Optical specifications	
Broad band source spectral width	70 nm
Output power	< 1 mW
FBG sensors per fiber	4
FBG Center Wavelengths	1529, 1547, 1565, 1583 nm
Number of fibers	1
Max Measurable Range per sensor	Up to 8000 pm
Max Resolution	0.5 pm
Accuracy on FSR	0.1%
Other specifications	
Data Communication Interface	USB
Sensor Fiber Optical Connectors	Angled F3000 Standard
LabView™ Software Driver	Available
Power Supply	5V