FBG Sensing Interrogator

IFIS100

IFIS

IFIS100 FBG Sensing Interrogator has been developed to meet the demand for measuring strain, temperature, pressure, acceleration and inclination in civil engineering, oil & Gas industries, Aerospace, Energy industries etc where both high accuracy / resolution and low cost are required. Most of various applications can meet the suitable solution with real-time monitoring system, IFIS100. It is a compact and highly robust interrogation system for dynamic and multi-points measurement of FBG sensors.

In addition to the standard commercial interrogation system, IFIS100 can be developed and designed flexibly for upgrade version to meet the requirement of demanding special applications.

Features

- High Accuracy/ High Resolution
- High Measurement Speed Repeatability
- Wide Wavelength Range
- Scalability for Multi-sensing points
- Low Power Consumption
- OEM Versions Available
- Real-time Analysis
- User friendly Interface
- Flexible Auto Gain Control

FIBERPRO

High speed real-time
monitoring system

Applications

- Civil Engineering (Bridge, Building, Dam, Power cable, Tunnels, etc)
- Oil and Gas Industries
- Energy Industries (Wind turbines, Pipelines, Nuclear plants, etc)
- Security Industries
- Transportation Industries (Rail road, Subway, etc)
- Aerospace/ Marine Vessels Industries.
- Military Industries

Specification

Wavelength Range	1510 - 1595 nm
Wavelength Accuracy	20pm
Resolution	1pm
Number of FBG[1)]	24ea/ch
Repeatability	< 3pm
Number of Sensor Channel	1, 3, 7, 15
Sampling Frequency	1ch : 200Hz, 3ch: 66Hz, 7ch: 28Hz, 15ch: 13Hz (200/N)
Maximum Sampling Rate[2)]	200Hz (Max up to 1.6KHz)
Dynamic Range	> 20dB
User Interface	USB 1.1, RS-232
Power Supply	AC 85 ~ 264V / DC 9~24V
Dimension	88 x 225 x 380 mm

1), 2) It's availale to customize according to customer's request

Ordering Code

IS7100 - (1) - (2)

1. Number of sensor channel: 1(1 ch), 3(3 ch), 7 (7ch), 15(15ch)
2. Connector type: F/P (FC/PC type), F/A (FC/APC)

IFIS100-00-00

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