

CES/DTR³-100

Correlation Engine System

Features

- The measuring instrument for FBG sensors
- High-speed measurement at High-SNR by correlation processing
- Multi-point measurement is possible.
- It is measurable by a high signal to noise ratio.
- The connection with PC is simply Connected by USB
- It corresponds to temperature, vibration, pressure, distortion, etc.

Applications

- **Civil structure**
Dam and bridge, tunnel, building
- **Energy business**
Wind power generation, Geothermal energy
- **Oil & Gas field**
Storage tank, Plant equipment
- **Aerospace field**
Airplane and motor
- **Transportation field**
A Car and railroad vehicle
- **Disaster prevention field**
Fire detection, flood detection, a weather survey

Introduction

CES/DTR3 is a measuring instrument. This instrument measures the displacement of the laser reflection from the FBG sensor system that are connected by TDM.

It can combine with FBG sensor and can check the physical quantity change by temperature, pressure, strain, etc. on a wavelength.

Since a sensor is distinction with a distance difference with TDM system, two or more FBG sensor of the same wavelength as SLD light source can be measured.

In addition, since there is no machine operation part in the inside of equipment, it is strong to vibration and the practical use under broad environment is possible. Moreover, when a sensor breaks down, only a locating fault can be exchanged for a spare sensor and I excel in trouble correspondence very much.



Collection of data, processing, and a display attach utility software. Moreover we disclose interface information. The customer can use new

Interrogator

Specification

Optical characteristic	
The number of port	1
The number of channels	8(max)
Scan frequency	1Hz
Optical power wave length	1548 ~ 1552nm
Wavelength reproducibility	<10pm
Wavelength accuracy absolutely	±20pm
Dynamic range	>30dB
PC interface	
Interface	USB2.0 (FT245R)
Optical connector	SC/APC 8°
Operating environment	
Operating temperature	0°C ~ 40°C(indoor)
Power consumption	
Power consumption	AC100V±10%
Size	
Dimension	About 350(D) × 370(W) × 66(H)mm
Weight	About 4.7kg

※ Specifications and designs are subject to change without notice.



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