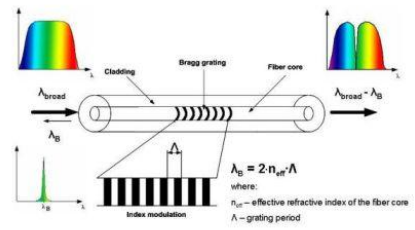


OPTICAL MEASUREMENT UNIT FOR MULTISENSING INDUSTRIAL APPLICATIONS

The FBG interrogator UCL-020 /UCL-200 is an optical measurement unit with industrial quality field proven.

This FBG interrogator allows to measure, simultaneously and at several points on the same optical fiber, different parameters such temperature, strains, pressures displacements, accelerations...



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MEASURABLE PARAMETERS

- Temperatures
- Strains
- Vibrations
- Pressures
- Displacement
- Load
- Inclination

GENERAL FUNCTIONALITIES

- High repeatability and long term stability with a built-in optical wavelength reference cells
- Optically isolated I/O and communication ports
- Detection of faulty sensors with alarm generation
- Material support for software user application (Fully Open)
- Dataloging
- Customized graphical interface

APPLICATIONS (Monitoring)

- Civil engineering structures
- Wind turbines
- High Voltage transformer and generator
- Oil and Gas
- Handling and weighing systems
- Aeronautic and railway



The best cost/performance ratio



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OPTICAL INTERROGATOR UNIT FOR MULTISENSING INDUSTRIAL APPLICATIONS

OPTICAL SPECIFICATIONS

Number of optical channels	4 , 2x4 or 8
Number of sensors per channel	20
Wavelength range	C-Band : 1525-1570nm
Scan frequency	20 Hz up to 200 Hz
Resolution, Repetability $1\sigma/1mn$	1pm
Accuracy- long term	< +/- 4 pm
Optical connectors	FC/APC

ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	-20°C à + 70°C
Communication interfaces (*)	Ethernet IP, USB, RS-485 , CAN OPEN
Input 0-24V (*)	10 with optical isolation
Output 0-24V (*)	02 with optical isolation
Dimensions	285 mm x 205 mmx 65 mm
Weight	2Kg
Power Supply	9-36 VDC
Power Consumption	12W Mini

(*) other configurations available on request.

Datasheet subject to change without prior notice

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