

# INTERROGATION UNIT FOR SLOW EVENTS



The interrogation unit for measurement, evaluation and logging of the static or slow events detected by FBG (Fiber Bragg Grating) or FP (Fabry-Perot) optical sensors. The unit is based on the unique hardware solution which allows significantly lower cost in comparison with competitive devices. The unit is compact sized with robust aluminum case.

OPTICAL PROPERTIES	
Measurement range	7 nm / channel
Acquisition period	3.5 s
Wavelength band	C-band
Number of physical channels	4
Maximal number of sensors per channel	4*
Maximal number of sensors	16*
Resolution	0.1 pm
Absolute accuracy	± 2 pm
Optical connector	LC/APC
Laser class	1M

ELECTRICAL PROPERTIES	
Power supply	230 V AC / 50 Hz
Power consumption	Max. 42 W
Interface	Ethernet, USB 2.0**, I2C**, UART**, CAN**
Software	Customizable for specific application

PHYSICAL PROPERTIES	
Dimensions	230x115x80 mm
Weight	1.5 kg
Operating temperature	0 °C – 40 °C

\* Depending on sensors type and range

\*\* Option on demand

## Application:

- Evaluation of many non-electric quantities sensed by the FBG and FP sensors.
- Sensing systems for civil structures (bridges, tunnels, dams, buildings...), critical infrastructures (nuclear power plants, pipelines, wind turbines...), aerospace, etc.
- Compatible with our sensors of temperature, strain, stress, pressure and tilt.

## Key features:

- Compact measurement platform with unique hardware solution.
- For evaluation of slow or static events.
- High accuracy, stability and reliability.
- Significantly lower cost in comparison with competitive devices.
- Data logging with time stamp.
- Real-time measurement and parallel data logging mode.



## Additional information:

This interrogation unit is available only with our optical sensors. For specific sensors offer please visit our web sites.



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