

LIRIS OS v.2.0

Autonomous and wireless sensor

Ref : LIR-OST-V20-2M-EU



The LIRIS measures deformations distributed over a representative length of 1 and 2 meters, with 50Hz detection. With its integrated mini-station, the LIRIS overcomes external power and any wired connection, while maintaining long battery life, up to 2 years.

- Quick installation
- Very simple handling and configuration
- Movable according to the site's needs
- Follows the structural geometries
- Adaptable to heterogeneous materials

MAIN CHARACTERISTICS

Battery life	Up to 18 month
Sampling frequency	50 Hz
Automatic recordings	- 1 value per hour in static mode - 1 value every 20 msec in dynamic mode, with buffer memory for input of the whole event: Data recording before and after the event
Resolution	20µm without filtering (low power) 10µm max with filtering
Communication	USB Radio modem



SMS/GPRS Module

Off-site alarm system by SMS, informing the recipient of a threshold crossing.





LIRIS OPTICAL STRAND

Length	2 meters or 1 meter
Measurement range	4 mm (If length 2 m), 3 mm (If length 1 m)
Resolution	20µm without filtering (low power) 10µm max with filtering
Sampling frequency	50 Hz
Temperature range	-10°C to 40 °C
EMC, Strand part	Insensitive and neutral
Endbox:	Dimensions [L x W x H]: [100 x 40 x 15] mm Material: Aluminium

MINI-STATION

Mini-Station Box	Dimensions: [230 x 40 x 60] mm. Weight: 600 g
ECM	EC Qualification pending
Radio Link	ISM: 867 MHz/868 MHz (EU)
Wired connection	CAN Interface (if plugged, radio disabled)
Transmission power	up to 10dBm
Reception sensitivity	-100 dBm
Power supply	By special battery, integrated to the mini-station box hood or wired through CAN interface
Battery life	Up to 18 month
Dynamic storage capacity	18 minutes at 50 Hz or ~250 events of 5 seconds.
Static storage capacity	~6 mois, with an hourly recording
Trigger mode	Dynamic mode



RADIO MODEM

Power supply	Via USB
Communication port	USB 2.0
Antenna connection	Mini SMA type
Transmission power	up to 10dBm
Radio Link	ISM: 867 MHz/868 MHz (EU)