

# FEBUS G-series: B-OTDR for strain and temperature monitoring

FEBUS G1-C: compact



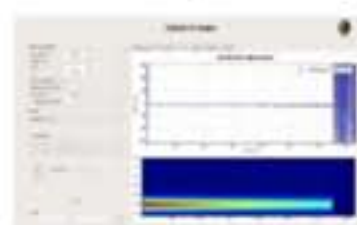
Carriable, Autonomous, Connected  
Ideal for Services

FEBUS G1-R: Rackable



State of the Art, High speed  
1 km range, 1 s measurement

FEBUS FO-log software



User Friendly, On-Custom Plugins

- **« Single-ended »**: Need to be plugged to only one end of the optical fiber. This allows an easier onsite deployment and the use of already existing optical fiber.
- **Robust and reliable**: Field performances are similar to laboratory performances
- **Low consumption** : battery / photovoltaic panel operation
- **Competitive price**: new applications can be addressed
- **Optical budget**: 12 dB at 1 m spatial resolution and 6 dB additional in case of high loss in the first 3 km.

## Technical Features Of G-Series

Features	G1-R (Rackable)	G1-C (Compact)
Range	30 km (1 m resolution) 50 km (2 m resolution) 100 km (20 m resolution)	
Spatial sampling	10 cm	
Spatial resolution	1 m ( 25 cm in mid-2017)	
Temperature accuracy	0,5 ° C	
Strain accuracy	10 µm/m	
Power consumption	400 W	100 W
Communication	Ethernet	Wifi
Weight	15 kg	12 kg (incl. Battery and screen)
Form factor	19" , 4 U	55 x 36 x 22,5 cm (rolling case)
Optical fiber required	Any Single Mode Fiber (ITU-G652)	
Operating system	Linux	
Optical connector	E2000 / APC	
External port	USB x6, HDMI, DVI	USB x2

## Applications



**Cable Integrity  
Monitoring**



**Pipeline Damage  
Prevention**



**Intrusion  
Detection**



**Structural Health  
Monitoring**

No.	Project Description	Client	Job Location
1	Pipeline Monitoring In Permafrost Environment	TOTAL	France
2	Leak Detection On Subsea Gas Pipeline	TOTAL	France
3	Strain Monitoring Of Metal Ring For Horizontal Drilling	TOTAL	France
4	Monitoring Pipeline Integrity Behaviour Subject To Landslides Activities	TIGF	France
5	Reinforced Concrete Monitoring Of Cracks For Nuclear Power Plant	EDF	France
6	Dike Structural Health Monitoring	EDF	France
7	Measuring The Soil Compaction Due To Big Gears Activities Nearby	SOCOTEC	France
8	Windmill Turbine Strain And Pressure Monitoring	VALOREM	France