LUNA

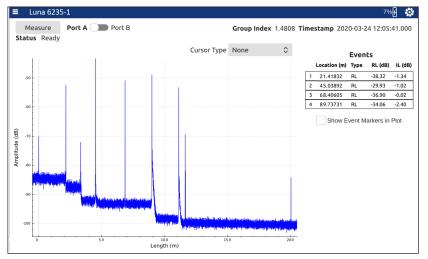
OBR 6225

Portable Optical Backscatter Reflectometer

The Luna OBR 6225 is a portable and rugged ultra-high resolution reflectometer with backscatter-level sensitivity for testing fiber optic networks deployed in aerospace, naval, data center and industrial applications.

The OBR 6225, along with the OBR 6235 for data centers and longer networks, are part of the OBR 6200 Series for precision testing of short and medium length fiber optic links and assemblies.

The OBR 6200 Series systems utilize optical frequency domain reflectometry (OFDR) technology to measure distributed return loss (RL) and insertion loss (IL) with sub-millimeter spatial resolution, high precision and high dynamic range. The OBR 6225 is a rugged battery powered integrated system with an intuitive touchscreen user interface, making it ideal for field maintenance applications.



The OBR 6225 maps reflection versus length with high resolution, automatically detecting RL reflection events and IL sites that exceed user defined thresholds

The OBR 6200 Series provides portable high-resolution reflectometry for field and maintenance applications

KEY FEATURES

- Fully portable and rugged OBR
- Track and analyze return loss (RL) and insertion loss (IL) versus length
- Spatial sampling resolution down to 80 μm
- Detect and precisely locate reflective events
- Measure optical path length with high precision
- Automatic event detection
- One or two optical channels
- Available with IP65 and MIL-STD certifications

APPLICATIONS

- Troubleshoot fiber assemblies in the field
- Precisely locate IL sites, high RL connections, fiber breaks, etc.
- Maintain avionics, aerospace, naval and industrial networks
- Verify fiber lengths of data center interconnects
- Troubleshoot fiber optic sensing systems

SPECIFICATIONS

SPEC	CIFICATIONS	
1 port		
2 ports		
50 m	100 m	200 m ¹
0.10 mm	0.20 mm	0.40 mm
±	0.1%	
8 nm	4 nm	2 nm
154	46.7 nm	
	10 s	
70 dB		
0 to -129 dB		
-129 dB		
± 0.1 dB		
± 0.5 dB		
15 dB		
± 0.1 dB		
± 0.2 dB		
4 mW		
3 h runtime; 2 h charge time		
10.1", 1280 x 800 resolution		
USB-C, R	345 Ethernet	
FC/APC (SC/APC or FC/APC adapter patch cord)		
Sealed duplex FC/APC (FC/APC adapter patch cord)		
10.1 lb (4.6 kg)		
13.4 x 8.7 x 2.8	3 in (34 x 22 x 7 cm)	
MIL-S	STD-810G	
IP65		
MIL-STD-461G		
-20 to 35 °C (0 to 35 °C charging)		
-20 to 60 °C		
0 to 2500 m (0 to 3000 m storage)		
	STOP STOP	<u>ک</u>

NOTES

- 1. With Extended Length Option 2. Distance between two sample points in SMF-28.

- Distance between two sample points in SMF-28.
 Range between strongest reflection greater than -60 dB and noise floor.
 Noise floor return loss at half of maximum length.
 Measured with 1 cm integration width.
 Two way loss before backscatter reaches noise floor and IL measurements are no longer possible.
 Measured with integration widths of 10 cm, 12.5 cm, 25 cm and 50 cm for 20 m 50 m 100 m and 200 m modes respectively.
- 20 m, 50 m, 100 m and 200 m modes, respectively. 8. Accuracy guaranteed via internal NIST-traceable HCN gas cell.



The OBR 6225-2 (top) incudes a sealed, dual FC/APC connector, while the OBR 6225-1 includes a single standard FC/APC optical connetor.

ORDERING

Product OBR 6225-1	Description Portable OBR	Includes OBR 6225-1 single-channel system, adapter cables with FC/APC and SC/APC connectors, accessory kit, power supply/charger and ruggedized shipping case
OBR 6225-2	Portable Dual-Channel OBR with IP65 Rating	OBR 6225-2 dual-channel system, adapter cable with 2 FC/APC connectors, accessory kit, power supply/charger and ruggedized shipping case
OPT06225	Extended Length Option	Adds 200 m measurement mode to the OBR 6225



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6225 REV4 05/03/2023