



OTDR II Specifications:

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|--|---|
| Display: | 7 in (178 mm) outdoor-enhanced touchscreen, 800 x 480 TFT |
| Interfaces: | Two USB 2.0 ports RJ-45 LAN 10/100 Mbit/s |
| Storage: | 2 GB internal memory (20 000 OTDR traces, typical) |
| Batteries: | Rechargeable lithium-polymer battery 12 hours of operation as per Telcordia (Bellcore) TR-NWT-001138 |
| Power supply: | Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz, 9-16 V DCIN 15 Watts minimum |
| Wavelength (nm) ^b : | 850/1300/1310/1550 |
| Dynamic range (dB) ^c : | 27/29/36/35 |
| Event dead zone (m) ^d : | MM: 0.5, SM: 0.7 |
| Attenuation dead zone (m) ^e : | MM: 2.5, SM: 3 |
| Distance range (km): | 0.1 to 260 for single-mode and 0.1 to 40 for multimode |
| Pulse width (ns): | MM: 3 to 1000, SM 3 to 20 000 |
| Linearity: | (dB/dB) ±0.03 |
| Loss threshold: | (dB) 0.01 |
| Loss resolution: | (dB) 0.001 |
| Sampling resolution (m): | 0.04 to 5 |
| Sampling points: | Up to 256 000 |
| Distance uncertainty (m) ^f : | ±(0.75 + 0.0025 % x distance + sampling resolution) |
| Measurement time: | User-defined (60 min. maximum) |
| Reflectance accuracy: | (dB) ±2 |
| Typical real-time refresh (Hz): | 4 |
| Laser safety: | 1M |

Notes

- a. All specifications valid at 23 °C ± 2 °C with an FC/APC connector, unless otherwise specified.
- b. Typical.
- c. Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.
- d. Typical, for reflectance below -55 dB, using a 3-ns pulse.
- e. Typical, for reflectance below -55 dB, using a 3-ns pulse. Attenuation dead zone at 1310 nm is 4.5 m typical with reflectance below -45 dB
- f. Does not include uncertainty due to fiber index.

General:

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|------------------------|--|
| Size (H x W x D): | 166 mm x 200 mm x 68 mm (6 9/16 in x 7 7/8 in x 2 ¾ in) |
| Weight (with battery): | 1.5 kg (3.3 lb) |
| Temperature: | Operating -10 °C to 50 °C (14 °F to 122 °F) Storage -40 °C to 70 °C (-40 °F to 158 °F) ^a |
| Relative humidity: | 0 % to 95 % noncondensing |

Source (optional)

| | |
|-----------------------------------|------------------|
| Output power (dBm) ^b : | MM: -3, SM: -6 |
| Modulation: | CW, 1 kHz, 2 kHz |

Built-In Power Meter (GeX - optional ^c)

| | |
|---|---|
| Calibrated wavelengths (nm): | 850, 1300, 1310, 1490, 1550, 1625, 1650 |
| Power range (dBm) ^d : | 27 to -50 |
| Uncertainty (%) ^e : | ±5 % ± 10 nW |
| Display resolution: | (dB) 0.01 = max to -40 dBm 0.1 = -40 dBm to -50 dBm |
| Automatic offset nulling range ^{d,f} : | Max power to -30 dBm |
| Tone detection (Hz): | 270/330/1000/2000 |



Visual Fault Locator (VFL)

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|------------------------------|---------------------|
| Laser, 650 nm: | ± 10 nm |
| CW/Modulate: | 1 Hz |
| Typical Pout in 62.5/125 μm: | > -1.5 dBm (0.7 mW) |
| Laser safety: | Class 2 |

Laser Safety:

CAUTION: VIEWING THE LASER OUTPUT WITH CERTAIN OPTICAL INSTRUMENTS (FOR EXAMPLE: EYE LOUPES, MAGNIFIERS AND MICROSCOPES) WITHIN A DISTANCE OF 100 MM MAY POSE AN EYE HAZARD.

Notes

- a. -20 °C to 60 °C (-4 °F to 140 °F) with the battery pack.
- b. Typical output power is given at MM 1300nm, SM 1550 nm.
- c. At 23 °C ± 1 °C, 1550 nm and FC connector. With modules in idle mode. Battery operated after 20-minute warm-up.
- d. Typical.
- e. At calibration conditions.
- f. For ±0.05 dB, from 10 °C to 30 °C.

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