



ALBEDO Metro.OTDR-F2 is a high performance OTDR for installing and troubleshoot optical infrastructures and FTTx networks. It can measure physical characteristics of the fiber and can also locate the faults. It can also be equipped with VFL.

# Datasheet

Updated on 26/9/16

# Metro.OTDR-F2

Metro.OTDR is ALBEDO' family of OTDR to satisfy any demand of testing optical fiber. The model F2 palm size is an entry device for the installation of FTTH access networks.

## 1. Functional Specification

Metro.OTDR-F2 specs	
Wavelength (nm)	1310nm / 1550nm (±15nm)
Dynamic Range	28 / 26dB
Fiber Type	Singlemode
Pulse Width	10, 30, 80, 160, 320, 640, 1280, 5120, 10240ns
Linearity	0.05dB/dB
Loss Threshold	0.01 to 30.00dB
Loss Resolution	0.001dB
Loss Testing Accuracy	±0.02 dB/km
Sampling Resolution	0.25m - 16m
Sampling Points	up to 65k points
Event Dead Zone	1.6m (pulse 10ns, fiber reflection loss ≥ 40 dB)
Distance Accuracy	±(1m + sampling space + distance × 0.003%)
Loss Accuracy	±0.02 dB/km (SMF)
Distance Range	4, 8, 16, 32, 64, 128, 256km
Trace Refresh	1s
Index of Refraction	1.00000 to 2.00000
Helix	0.80000 to 1.00000
Optical Connector	FC/PC (universal connector, option)

## 2. Options

### 2.1 Visual Fault Locator

- Output wavelength: 650nm±10nm
- Output power: ≥2mW (Typical), detection range: ≥5km
- Operating mode: CW / 1Hz / 0.5Hz

## 3. Platform

### 3.1 Ergonomics

- Size: 215×100×60 mm
- Weight: 1,1 kg
- Touchscreen: 320×240 pixels pixels
- 3.5 inch TFT-LCD
- AC/DC range 100V~240V(1.5A), 50/60Hz
- GUI controlled by Touch-screen and keyboard

### 3.2 Results

- File transfer to USB port
- Internal Storage: 500 traces
- OTDR trace file generation (.sor) (.ei)

### 3.3 Board

- 1 x USB
- 1 x Mini USB
- DC: 19V±10% (3A)

### 3.4 Batteries

- Lithium-Ion (Field replaceable pack)
- Charging temperature: 5°C~45°C
- More than 10 hours of operation (low brightness, no measuring)

#### Battery Storage temperature

- Longer than 6 months: -20°C~45°C
- Short storage time: -20°C~60°C

### 3.5 Environmental

- Operation temperature: 0°C~ 50°C
- Storage temperature: -20°C~60°C
- Relative humidity: 5% - 95%
- No Condensation

