

Optical Fault Locator for Service Activation and Maintenance VeEX Pocket-Sized FL41 Optical Fault Locator

The FL41 is a budget friendly and palm-sized Fault Locator/ Optical Power Meter for measuring fiber spans up to 20 km in length. The FL41f has a built-in filter for in-service fault locating. The FL41 is the perfect tool for service activation technicians who need to measure short fiber links and drop fiber for PON, 5G rollout, FTTx, LAN/WAN, and CATV.



Features

- Singlemode cable length verification
- Single test port - fixed SCAPC connector
- Quick test in less than 35 secs with one touch automatic mode
- In-Service testing with built-in filter
- NoApp™ QR code generation capability for faster result saving*
- Simple user interface that saves time on the job
- High contrast display with backlight
- Handheld, lightweight rugged design
- Splash and dust resistant design
- Save up to 10 test results
- Micro USB charging point
- Battery autonomy >350 tests
- Size: 129 x 61 x 38 mm (H x W x D) 5.1 x 2.4 x 1.5 in.
- Weight: <205 g (<0.45 lbs.) w/OPM option
- Construction: Rugged, polycarbonate chassis, 1 meter drop tested

Specifications

FL41 Fault Locator with OPM

Optical Fault Locator

- Wavelengths: 1625 nm
- Measurement Range: 10m to 20 km

OPM

- Wavelength range: 1260 to 1680 nm
- Calibrated wavelengths: 1310, 1490, 1550, and 1625 nm
- Measurement range: -35 to 0 dBm

FL41f Fault Locator

- Wavelength: 1625 (F) nm
- Measurement range: 10 m to 20 km
- In-Service Filter isolation: 50 dB
- Class 1 Laser Safety

Fault Locator	FL41	FL41f
Wavelength (nm)	1625 ±10 nm	1625 ±10 nm
Passband (nm)	1610 to 1680	
Filter Isolation (dB)	50	
Distance Range (m)	10 m to 20 km	
Distance Measurement Accuracy (%) ^{2,3}	±0.5	
Display Resolution (dB)	0.1	
Laser Safety	Class 1 per 60825-1:2014 edition	
Power Meter⁴		
Wavelength Range, InGaAs (nm)	1260 to 1680	
Calibration Wavelengths (nm)	1310/1490/1550/1625	
Power range (dBm)	-40 to 0	
Power measurement accuracy, (dB) ¹	±1	
Display Resolution (dB)	0.1	
Optical Connector	fixed SC/APC connector	

Notes

1. At room temperature.
2. For fiber length <10km and reflectance -42 dB.
3. For non-reflectance, distance measurement accuracy can be up to ±2.5%.
4. FL41 can be configured as an OPM. FL41f will not support OPM option. Refer to ordering guide.