P80 Rechargeable Touchscreen OTDR · 1310/1550 nm · Up to 100 km

Professional Installations / OTDR & Test Equipment

OTDR for G.652D single-mode fiber · 1310/1550 nm · 24/22 dB · Ranges up to 100 km · 3.5-inch touchscreen · OPM, VFL and RJ45 tests · 4000 mAh battery · USB-C.

KG-FT-OTDR-P80

Fiber type
Single-mode G.652D

OTDR wavelengths
1310/1550 ±20 nm

Dynamic range
24/22 dB

Key features

- Dual-wavelength single-mode OTDR: 1310/1550 nm.
- Dynamic range of 24/22 dB and test ranges up to 100 km.
- 3.5-inch color touchscreen and physical buttons.
- Dead zones: 2.5 m event and 8 m attenuation.
- Event map, OPM, VFL of at least 10 mW and integrated light source.
- RJ45 cable mapping, length measurement and location.
- Rechargeable 4000 mAh battery and USB-C connection.
- SOR traces, internal memory for at least 1000 records and SD card support.
- LED illumination and carrying case.

Technical specifications

Parameter	Specification
Model	P80
Fiber type	Single-mode G.652D
OTDR wavelengths	1310/1550 ±20 nm

Technical specifications

Parameter	Specification
Dynamic range	24/22 dB
Test ranges	100 m / 500 m / 1 / 2 / 5 / 10 / 20 / 40 / 60 / 100 km
Usable reach	Depends on link losses and conditions
Event dead zone	2.5 m
Attenuation dead zone	8 m
Pulse width	5 / 10 / 20 / 50 / 100 / 275 / 500 ns; 1 / 2 / 5 / 10 µs
Distance accuracy	±(1 m + sampling interval + 0.005% × measurement range)
Linearity	±0.2 dB/dB
Sampling points	Maximum 20,000
Sampling resolution	0.25–8 m
Loss resolution	0.001 dB
Distance resolution	0.001 m
Refractive index	1.0000–2.0000
Reflectance accuracy	±3 dB
File format	Standard SOR
Screen	3.5-inch color touchscreen LCD
OPM	−50 to +26 dBm; uncertainty ±5%
Calibrated OPM wavelengths	850 / 1270 / 1300 / 1310 / 1490 / 1550 / 1577 / 1625 / 1650 nm
OPM frequency identification	270 / 330 Hz / 1 / 2 kHz
OPM connector	Universal FC/SC/ST
Optical source	Same as OTDR wavelengths; FP-LD laser
Source power	−5 dBm ±2 dB, adjustable; uncertainty ±5%
Source modes	CW / 270 / 330 / 1000 / 2000 Hz
Optical connectors	Interchangeable FC/SC/ST
VFL	≥10 mW
Declared laser classification	Class 3B

Technical specifications

Parameter	Specification
RJ45	Wire sequence, length and location
Battery	4000 mAh / 3.7 V
Charging	USB-C
Memory	Internal ≥1000 records; supports SD card
Operating temperature	−10 to +50 °C
Storage temperature	−40 to +70 °C
Humidity	0–90%, non-condensing
Dimensions	173 × 80 × 38 mm
Approximate weight	360 g, including battery
Package weight	Approximately 700 g
Package dimensions	Approximately 241 × 106 × 77 mm

Applications

Single-mode link installation
Distance measurement, trace analysis and event map.

Optical fiber maintenance
Loss, connector and splice diagnostics.

Field optical tests
Checks using OPM, light source and VFL.

RJ45 diagnostics
Cable mapping, length and location using receiver and remote module.

Packaging & contents

P80 OTDR RJ45 locating receiver RJ45 remote module Optical adapter Charger and USB cable Carrying case and strap User manual and box