

FTS20 Series

Optical Test Kits



FTS20 Series Optical Test Kits include Optical Light Source, Optical Power Metre, and Optical Loss Tester. Portable design and light weight provide huge benefits and convenience for the engineer to detect optical fibres or cables in core, metro, and access network with high flexibility, and efficiency.

Meanwhile, it can transfer the data by USB interface or Bluetooth, easy to generate test report.

- Supports single mode and multi-mode fibre;
- PON, LAN/WAN, DWDM, CATV, and other network test application;
- Light source, VFL, power metre, loss tester, all in one;
- Automatically detect wavelength;
- Transfer data by USB or Bluetooth to PC or other devices;
- APP for Android to check test data;
- 3 years calibration.

FTS20 Series General Specifications

GENERAL SPECIFICATIONS	
Screen	2.7 inch LCD screen
Other Interface	
USB	Micro USB port, 1
Bluetooth	Bluetooth 4.0 (Optional)
Other Parameters	
Storage	2,000 Sets Data
Backlight	Supports
Auto Turn Off	Supports
Warranty and Calibration	3 years
Size and Weight	163(H) x 82(W) x 41(D) mm; 300g (not included batteries)
Temperature	Operating: -10°C to 50°C; Storage: -20°C to 70°C
Relative Humidity	0% to 95% (non-condensing)
EMC	EN55022/CIPSR22; EN61000-3-2; EN55024
Battery and Power Supply	
Battery	<ul style="list-style-type: none"> • Rechargeable NI-MH battery, or dry battery; • Working time: <ul style="list-style-type: none"> • 50 hours under 3 AA dry batteries (typical: optical power metre); • 30 hours under 3 AA dry batteries (typical: optical light source); • 100 hours under 3 AA NI-MH batteries (typical: optical power metre); • 50 hours under 3 AA NI-MH batteries (typical: optical light source); • Charging time: <5 hours (typical: 25°C)
Power Supply	<ul style="list-style-type: none"> • Input: 100-240V AC, 50-60Hz, 2A; • Output: 5V DC, 2A

FTS20 Series Technical Specifications

TECHNICAL SPECIFICATIONS (Light Source)		
Model	Multi-mode	Single-mode
Wavelength	850/1300±20nm	1310±20/1550±20nm, 1490±20/1625±20nm
Modulation Frequency	CW, 270Hz, 330Hz, 1KHz, 2kHz	
Emitter Type	FP-LD	FP-LD@1310/1550, DFB-LD@1490/1625
Spectral Width	≤50/135nm	≤5nm
Typical Output Power	≥-20dBm (62.5/125um)	≥-3dBm (9/125um)
Output Stability	±0.02dB/15mins, ±0.05dB/8hours	
Optical Connector	FC/PC, SC/PC, ST/PC, LC/PC	
Auto Detect	Supports (work with Power Metre)	
TECHNICAL SPECIFICATIONS (Power Metre)		
Model	PM1	PM2 (Coming Soon)
Detector Type	InGaAs	
Measurement Range	-70dBm to +10dBm	-50dBm to +27dBm
Maximum Input Power	+15dBm	+30dBm
Wavelength Range	800 to 1700nm (step 1nm)	
Calibrated	850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm, 1650nm	
Uncertainty	±0.2dB (±5%)	
Linearity	0.06dB	
Display Resolution	0.01dB	
Display Unit	W, mW, uW, nW, pW, dBm, dB	
Modulation Frequency	CW, 270Hz, 330Hz, 1KHz, 2kHz	
Optical Connector	FC, SC, ST, LC, 2.5mm universal adaptor (PC/APC)	
Auto Detect	Supports (work with Light Source)	
TECHNICAL SPECIFICATIONS (VFL)		
Wavelength	650±20nm	
Output Power	+10dBm	
Modulation Frequency	CW, 1Hz	
Optical Connector	2.5mm universal adaptor	

FTS20 Series Ordering Information

FTS20 – XXX – XX – xxxxx – xx

Model

Power Metre

PM1: -70dBm to +10dBm Power Metre

PM2: -50dBm to +27dBm Power Metre

Light Source

LS: Light Source

Wavelength

a: 1310 nm c: 1550 nm f: 850nm
 b: 1490 nm d: 1625 nm g: 1300nm
 h: 650nm (VFL)

Interface and Batteries

Code	00	01	10	11
USB	√	√	√	√
Bluetooth			√	√
Batteries (Dry)	√		√	
Batteries (NI-MH)		√		√
AC/DC Adapter	√	√	√	√

For example:

FTS20 – PM1 – LS – ach – 10

Power Metre

PM1: -70dBm to +10dBm

Light Source

Wavelength

a: 1310 nm c: 1550 nm h: 650 nm (VFL)

Interface and Batteries

USB, Bluetooth, Dry Batteries, and AC/DC Adapter

Notes: Product ordering information may update along with the product upgrade, please refer to the final version provided by our sales.

Please visit our website for the further information: www.OPWILL.com

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