

OFT-820-POF series Plastic optical fiber - Loss Test Set

Description:

The OFT-820-POF series Loss Test Set is designed for POF - Plastic Optical Fiber network testing. It combines two optical test equipment - Light Source and Power Meter in the same box. The tester can be used as portable power meter or as USB probe, part of testing workstation. The optical Light Source fulfills all the necessary technical requirements for field POF network measurements. The source sends optical light into output interface, available in working wavelengths 650 nm and 850 nm. The optical Power Meter is designed to measure absolute or relative optical power in POF networks. The memory capacity allows storage and uploading of up to 3000 measurements including memory position or fiber number, wavelength, absolute value or relative value and insertion loss. The SmartProtocol PC evaluation software supports memory download, test report generation and Data Exporter for data download to Excel sheet. The rechargeable battery ensures long term working with a minimum life time of 2 years. The removable and changeable IN/OUT adapters allow easy maintenance and cleaning of both ports, making the tester to be universal in wide range of application with various POF connectors. Design of both input and output adapters is the same.

Features:

- Portable power meter
- USB probe - accessory of Testing Workplace, full control via simple commands
- POF testing
- Small size, light weight
- Easy exchangeable adapters - source and power meter:
- FC, SC, ST, HFBR connectors
- Universal 2.5 mm ferrule connectors
- Universal 2.2 mm POF cable
- High capacity memory
- SmartProtocol PC software: memory download, reporting solution
- Data Exporter PC software - data download to Excel sheet
- Absolute and Relative optical power measurement
- Displayed units: dBm, dB, W
- Powered by built-in rechargeable battery
- Contrast display with backlight
- Auto Off
- Battery status indicator



Specifications:

Power Meter		Note:
Photodetector	3 mm Si	
Working wavelengths	650 nm, 850 nm	can be customized
Uncertainty	± 5%	
Resolution	0.1	
Dynamic range	-65 dBm to +10 dBm	650 nm, 850 nm
Light Source		
Wavelength	650 nm, 850 nm	
Output power	0 dBm	tested with SC POF connector
Stability (1 hour, delta/2):	± 0.03 dB	tested after 20 min warm up temperature 23 ± 1°
Loss Test Set		
Dimensions	165 x 80 x 50 mm	with universal adapter
Weight	350 g	with battery
Temperature operating	-10 to +50 °C	
storage	-40 to +70 °C	
Humidity (non condensing)	0 - 95%	
Battery working time	> 80 hrs	backlight off
Battery life time	> 2 years	2700 mAh NiMH

Compliant with RoHS-requirements (2002/95/EG, 27.01.2003)

OFT-820-POF set

IN/OUT ports: Detail view



IN/OUT ports with adapters



Optional adapters::



TE-APF-FC

TE-APF-SC

TE-APF-ST

TE-APF-250

TE-APF-HFBR TE-APF-220

Standard accessories:

- SmartProtocol PC software
- Two IN/OUT adapters according to ordering code
- Power charging adaptor
- USB connection cable
- Hard carrying case
- Calibration certificate

Ordering code:

OFT-820-POF - **XX-YY** - **wavelength**

XX-light source;	YY-power meter
FC	FC POF adapter
SC	SC POF adapter
ST	ST POF adapter
HFBR	HFBR POF
220	2.2 mm POF (cable)
250	Universal 2.5 mm
SMA	SMA adapter

Light source
as below

Options:

IN/OUT adapters

TE-APF-FC	FC
TE-APF-SC	SC
TE-APF-ST	ST
TE-APF-HFBR	HFBR
TE-APF-250	2.5 mm
TE-APF-220	2.2 mm
TE-APF-set	Complete adapters set, 2 pcs of each type

light source code	wavelength	note
650	650 nm	POF testing
850	850 nm	
650-850	650 + 850 nm	One LS output port

Ordering example:

OFT-820-POF-SC-250-650 650 nm light source SC adapter, power meter adapter - universal 2.5 mm

OFT-820-POF-HFBR-HFBR-650-850 650 + 850 nm light source, power meter - both HFBR adapters