

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 wavelength 650 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 5 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:

- Two functions:
 - Portable power meter
 - USB probe – accessory of Testing Workplace
- 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
- USB port
- USB probe mode - full control via simple commands
- 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

Standard accessories:

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

Optional adapters:



TE-APF-FC



TE-APF-SC



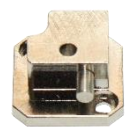
TE-APF-ST



TE-APF-250



TE-APF-HFBR



TE-APF-220

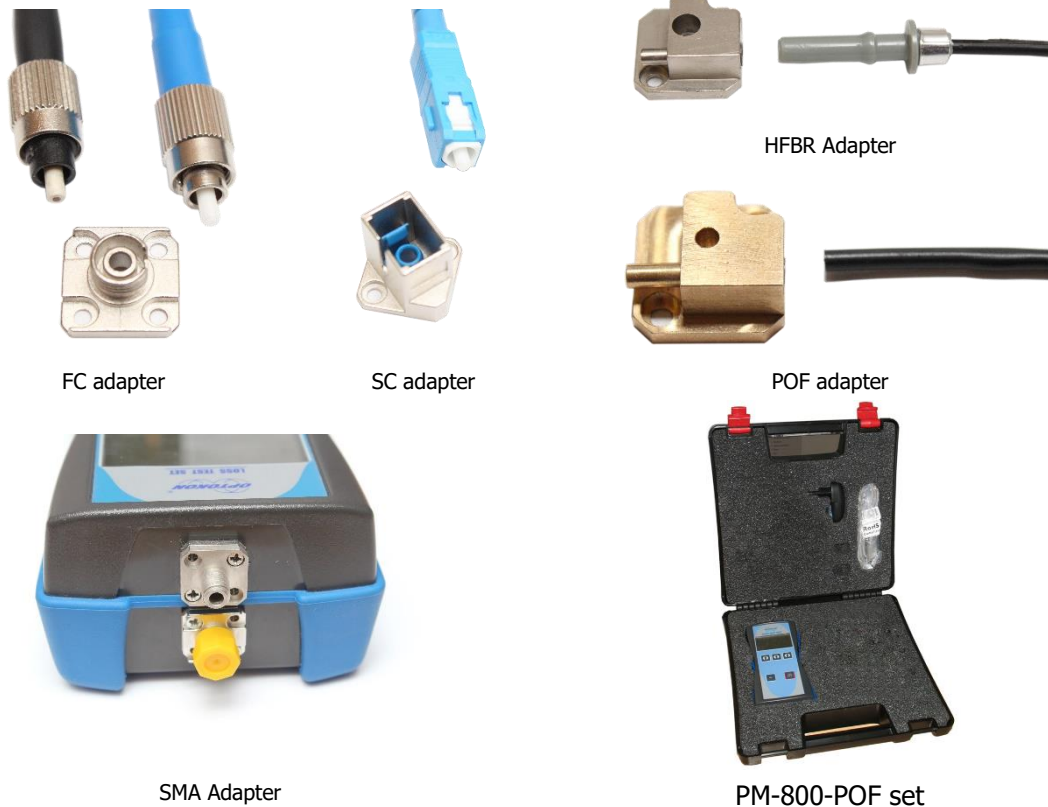
Specifications

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		
Output power		
LED 650 nm	-10 dBm	tested with SC POF connector
Stability (1 hour, delta/2):		
LED 650 nm	± 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	> 5 years	2700 mAh NiMH

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

Applications: Ordering example:

Adaptors detail



OFT-820-POF-SC-250-LED650 LED 650 nm light source SC adapter, power meter adapter - universal 2.5 mm

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

Note: for ordering extra adapters please use form TE-APF-XX; XX – according ordering code table above
Other options – Master patchcord, soft bag,

light source code	description	application
LED650	650 nm Light Emitting Diode	POF testing