

OFT-840 Loss Test Set with RL

Description:

The OFT-840 series optical Loss Test Set with optical Return Loss (RL) combines optical Light Source, Power Meter and Return Loss testing in the same box. The optical Light Source fulfills all the necessary technical requirements for field equipment. Available in two working wavelengths: 1310 or 1550 nm. The optical Power Meter is designed to measure absolute or relative optical power in optical networks. The optical RL function provides extended measurement range with improved linearity.

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.



Features:

- Optical Light source, Power meter and Return loss tester
- High capacity two level memory
- SmartProtocol PC software: memory download, reporting solution
- Data Exporter PC software: data download to Excel sheet
- Detection of modulation 270 Hz, 1 kHz, 2 kHz
- AWD (Auto Wavelength Detection) function
- USB port - battery charging, data download, FW upgrade
- USB probe mode - full control via simple commands
- Absolute and Relative optical power measurement
- Displayed units: dBm, dB, W
- Powered by built-in Li-Pol rechargeable battery
- Battery status indicator, auto Off function

Standard accessories:

- SmartProtocol PC software, USB connection cable
- Universal 2.5 mm adapter at PM
- Matching gel
- Power charging AC/DC adaptor
- Traceable calibration certificate
- Hard carrying case

Options:

- Power meter: universal SFF 1.25 mm, LC, SC FC, ST, ... adapters
- Light source/Return loss – optional adapter FC, SC
- Master patchcords: FC/APC – LC/APC, FC/APC – LC/PC
- FC/APC – SC/APC, FC/APC – SC/PC
- Master measuring adapters: LC/APC, LC/PC, SC/APC, SC/PC

Power meter interface:



TE-ADP-FC
FC adaptor



TE-ADP-LC
LC adaptor



TE-ADP-SC
SC adaptor



TE-ADP-250
2.5 mm



TE-ADP-125
1.25 mm

Other types available on request:

TE-ADP-ST	ST adapter
TE-ADP-DIN	DIN adapter
TE-ADP-SMA	SMA adapter
TE-ADP-MU	MU adapter

Light source – Return loss meter interface:



TE-ALS-FC



TE-ALS-SC



Standard configuration of IN/OUT ports:
LS TE-ALS-FC FC adaptor
PM TE-ADP-250 universal 2.5 mm

General specifications		Note:
Dimensions	165 x 80 x 50 mm	with 2.5 mm universal adapter
Weight	400 g	with battery
Temperature operating storage	-10 to +50 °C -40 to +70 °C	
Humidity (non condensing)	0 to 95%	
Operating temperature	-10 to +50 °C	
Battery working time	> 50 hrs	between battery charging
Battery life time	> 2 years	3000 mA/h Li-Pol

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

Light Source		
Output power		
LD 1310, 1550 nm	-2 dBm	typ. value
Stability (1 hour, delta/2):		tested after 20 min warm up
LD 1310, 1550 nm	± 0.05 dB	temperature 23 ± 1°
Power Meter		
Photodetector	1 mm InGaAs	
Working wavelengths	850, 1300, 1310, 1490, 1550, 1625 nm	can be customized
Dynamic range: Standard	-65 dBm to +10 dBm -57 dBm to +17 dBm	1300, 1310, 1490, 1550, 1625 nm 850 nm
Uncertainty	± 5%	1310, 1550 nm @ -20 dBm
Resolution	0.01	
AWD/Modulation Detection	-50 dBm	1300 – 1625 nm
Return Loss Meter		
Range	0 - 65 dB	
Accuracy	0 - 50 dB: 0.5 dB 50 - 65 dB: 1 dB	

Ordering Code:

OFT-840	-	XX	-	XX	-	Light source
Ferrule style A2 ¹ 2.5/APC		Adapter Combined with FC A2 SC A2				Light source as below:

Light source code ²	description	port	application
LD31	1310 nm LD	1	
LD55	1550 nm LD	1	SM fiber testing

Note 1) A2: Light source port is equipped with 2.5 mm APC ferrule, the adapter is removable
 2) LD – Laser Diode, other wavelengths on demand

Ordering example:

OFT-840-A2-FC-LD31 light source: SM laser 1310, FC/APC connector - adapter
 power meter: InGaAs, universal adapter 2.5 mm

OFT-840-A2-SC-LD55 light source: SM laser 1550 nm, SC/APC connector - adapter
 power meter: InGaAs, universal adapter 2.5 mm