

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
- PM: Universal 2.5 mm adapter
- LS+RL output interface: adapter FC/APC1
- Master patchcords: FC/APC FC/APC (master at both ends)
- Master measuring adapters: FC/APC
- 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 SC
- FC/APC LC/APC, FC/APC LC/PC FC/APC SC/APC, FC/APC SC/PC Master patchcords:
- Master measuring adapters: LC/APC, LC/PC, SC/APC, SC/PC

Note: 1) FC/APC - NPC205 standard

Power meter interface:



TE-ADP-FC/APC FC adaptor



TF-ADP-LC LC adaptor



TF-ADP-SC SC adaptor



TF-ADP-250 2.5 mm



TF-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:







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

TEQ_01-13_EN 11/05/2020



General specifications		Note:
Dimensions	165 x 80 x 50 mm	with 2.5 mm universal adapter
Weight	400 g	with battery
Temperature operating storage Humidity (non condensing)	-10 to +50 °C -40 to +70 °C 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			
1310, 1550 nm	-2 dBm	typ. value	
Stability (1 hour, delta/2):	tested after 20 min warm up		
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 +10 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
31	1310 nm	1	
55	1550 nm	1	SM fiber testing

1) A2: Light source port is equipped with 2.5 mm APC ferrule, the adapter is removable 2) Other wavelengths on demand

Ordering example:

OFT-840-A2-FC-31 SM laser 1310, FC/APC connector - adapter light source:

power meter: InGaAs, universal adapter 2.5 mm

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