OFT-820 Loss Test Set

Description:

The OFT-820 series optical Loss Test Set combines two optical test equipments – Light Source and Power Meter in the same box. The optical Light Source fulfills all the necessary technical requirements for field equipment. Available in various working wavelengths combinations: 850, 1300, 1310, 1490, 1550 and 1625 nm. The optical Power Meter is designed to measure absolute or relative optical power in optical 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 and test report generating. The rechargeable battery ensures long term working with a minimum life time of 5 years.

Features:

- Small size, light weight
- High capacity two level memory
- SmartProtocol PC software: memory download
  reporting solution
- Detection of modulation 270 Hz, 1 kHz, 2 kHz
- AWD (Auto Wavelength Detection) function
- Various working wavelengths
- USB port - battery charging, data download, FW upgrade
- Absolute and Relative optical power measurement
- Displayed units: dBm, dB, W
- Powered by built-in rechargeable battery
- Battery status indicator
- Auto Off function

Standard accessories:

- SmartProtocol PC software
- Universal 2.5 mm adaptor at power meter
- FC/PC interface at light source
- Power charging adaptor
- Traceable calibration certificate
- Hard carrying case
- USB connection cable

Options:

- Power meter: Universal SFF 1.25 mm adaptor
  SC FC, ST, ... adaptors
  Light source: Changeable adaptors

Power meter adaptors

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 adaptor
TE-ADP-DIN	DIN adaptor
TE-ADP-SMA	SMA adaptor
TE-ADP-MU	MU adaptor

Light source adaptors

TE-ALS-FC

TE-ALS-SC

TE-ALS-ST

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

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Specifications

Light Source

Output power		**Note:**
LD 850 nm, LED 850 nm, 1300 nm	-20 dBm	
LD 1310, 1490, 1550, 1625 nm	-9 dBm Standard, 0 dBm Premium	typ. value
Stability (1 hour, delta/2):		
LD 850 nm, LED 850, 1300 nm	± 0.03 dB	tested after 20 min warm up temperature 23 ± 1°
LD 1310, 1490, 1550, 1625 nm	± 0.05 dB	

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 -45 dBm	1300 – 1625 nm 850 nm

General

Dimensions		165 x 80 x 50 mm	with 2.5 mm universal adapter
Weight		400 g	with battery
Temperature	operating	-10 to +50 °C	
	storage	-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		> 5 years	2700 mA/h NiMH

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

Ordering Code:

OFT-820 - XX - XX - Light source

Ferrule style	
P2	2.5/PC
A2	2.5/APC
-	N/A

Adaptor	
Combined with*	
ST	P2
SC	P2,A2
FC	P2,A2
NC	P2, A2 no connectors
LC	Fixed adaptor LC/PC
NLC	Fixed adaptor LC/APC

Light source
as below:

*) LC type – fixed adaptor, not removable
Other interface on request

light source code	**description**	**ports***	**application**
LED850, LD850	850 nm LED, 850 nm VCSEL laser	1	
LED30	1300 nm LED	1	MM fiber testing
LED850-30	850/1300 nm LED	1	
LD31	1310 nm LD	1	
LD55	1550 nm LD	1	SM fiber testing
LD31-55	1310/1550 nm LD	1	
LED850-30/LD31-55	850 nm+1300 nm LED / 1310+1550 nm LD	2	MM+SM testing

*) output power of dual wavelenghts port is 3 dB lower than specified
LD – Laser Diode (LD850 – VCSEL laser), LED – Light Emitting Diode
other wavelengths and port combinations on demand

Ordering example:

OFT-820-P2-FC-LD31-55	light source SM 1310 and 1550 nm, 1 port, FC connector power meter universal adapter 2.5 mm
OFT-820-P2-FC-LED850-30/LD31-55	light source MM 850 and 1300, SM 1310 and 1550 nm, 2 ports, FC connectors power meter universal adapter 2.5 mm

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