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OFT-820N
Optical Loss Test Set

Description:

The OFT-820N 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 changeable adaptor design allows the simple exchange of optical connectors according actual need.

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 rechargeable battery ensures long term working with a minimum life time of 5 years.



OFT-820N
Illustrative picture

Features:
- Two functions:
  - Portable Loss Test Set
  - USB probe – accesssory of Testing Workplace
- USB probe mode – full control via simple commands
- Small size, light weight
- High capacity two level memory
- Various working wavelengths
- Detection of modulation 270 Hz, 1 kHz, 2 kHz
- AWD (Auto Wavelength Detection) function
- USB-C port – battery charging, data download, FW upgrade
- Comes with its own PM application for setting, data transfer
- 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:
- Set of IN/OUT adapters
- USB-C connection cable
- Hard carrying case, TE-HC-03, 265x270x90 mm
- Traceable calibration certificate

Options:
- Master patchcord
- Master adapter

Power meter adaptors:

Standard


TE-ADP-FC


TE-ADP-LC


TE-ADP-SC


TE-ADP-250

Option


TE-ADP-125

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:**
850 nm, 1300 nm	0 dBm	
1310, 1490, 1550, 1625 nm	0 dBm	typ. value
Stability (1 hour, delta/2):		tested after 20 min warm up temperature 23 ± 1°
850, 1300 nm	± 0.03 dB	
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 storage Humidity (non condensing)	-10 to +50 °C -40 to +70 °C 0 to 95%	
Battery working time	> 50 hrs	between battery charging
Battery life time	> 2 years	Li-Pol battery

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

Ordering Code:

OFT-820N	-	**λ1- λ2**	/	**λ1- λ2**
		port 1, λ1 port 1, λ2		port 2, λ1 port 2, λ2

λ1, λ2 – LS wavelengths:
Select code from light source specifications table above

Light source code	**description**	**ports**	**application**
85 **30** **85-30**	850 nm 1300 nm 850/1300 nm	1 1 1	MM fiber testing
31 **55** **31-55**	1310 nm 1550 nm 1310/1550 nm	1 1 1	SM fiber testing
85-30/31-55	850 nm+1300 nm / 1310+1550 nm	2	MM+SM testing

Ordering example:

OFT-820N-31-55 light source SM 1310 and 1550 nm, 1 OUT port
OFT-820N-85-30/31-55 light source MM 850 and 1300 nm, SM 1310 and 1550 nm, 2 OUT ports

Power meter control SW from PC:

Download the SW PM215E application from:
https://www.optokon.com/category/60-software-manuals

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