

OFT-920 Ruggedized Optical Test Set

Description:

The OFT-920 ruggedized optical test set is designed for testing of optical networks terminated with connectors operating in harsh environment. It combines both light source and optical power meter in one common box. The test set is designed to meet the tactical military, and broadcast industry demand. The ruggedized aluminium case makes the unit ideal for field operation.

The memory capacity allows storage and uploading of up to 2000 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 minimal operation costs.



OFT 920-MM-HMA2-LED850

Features:

- Expanded Beam and ferrule technology harsh environmental connectors
- Ruggedized aluminium case
- Multimode (MM) or singlemode (SM) applications
- Simultaneous testing of all 2/4 fibers
- Internal memory
- Displayed units: dBm, dB
- High dynamic range
- Up to 4 light sources combinations
- Built-in charger, battery status indicator
- Easy to use with menu navigation

Standard accessories:

- Power charging adaptor
- Calibration certificate

Specifications

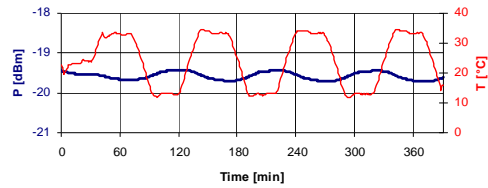
Light Source:		
Output power		Note:
LD 850 nm, LED 850, 1300 nm	-26 dBm (62.5/125 μ m fiber)	typ. value
LD 1310, 1490, 1550, 1625 nm	-16 dBm	
Stability (1 hour, delta/2):		tested after 20 min warm up temperature 23 \pm 1°
LD 850 nm, LED 850, 1300 nm	\pm 0.03 dB	
LD 1310, 1490, 1550, 1625 nm	\pm 0.05 dB	

Power Meter:		
Photodetector	1 mm InGaAs	
Working wavelengths	MM: 850, 1300 nm SM: 1310, 1490, 1550, 1625 nm	can be customized
Uncertainty	\pm 12%	1310, 1550 nm @ -20 dBm
Resolution	0.1	
Dynamic range	-55 dBm to +10 dBm -53 dBm to +17 dBm	1300, 1310, 1490, 1550, 1625 nm 850 nm

Optical Test Set		
Dimensions	145 x 145 x 56 mm	without connectors
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	> 20 hrs	between battery charging

Application:

- Optical networks measurements
- Fiber continuity testing



temperature drift of output level

Ordering Code:

OFT-920 - **XX** - **XXXX** - **XXX**

MM Multimode SM Singlemode		Source wavelength as below
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Connector type²	
HMA2	HMA ¹ Expanded Beam connector (non-contact optics), 2 fibers
HMA4	HMA ¹ Expanded Beam connector (non-contact optics), 4 fibers

Note: 1) Pro-Beam Jr. compatible
2) Other connector types available on request

light source code	Description ¹	application
LD650	650 nm visible laser	visual checking
LD850 LED850 LED30 LD850-LED30	850 nm LD (VCSEL) 850 nm LED 1300 nm LED 850 nm LD + 1300 nm LED	MM fiber testing
LD31 LD55 LD62 LD31-55	1310 nm LD 1550 nm LD 1625 nm LD 1310 + 1550 nm LD	SM fiber testing

Note: 1) other wavelengths and port combinations on demand



NATO supplier code: 1583G

Czech Army part number:	NATO stock number:
OFT 920-MM-HMA2-LD850-LED30	NSN: 6650-16-006-2311
OFT 920-MM-HMA4-LD850-LED30	NSN: 6650-16-006-2316