

## OFT-850K Hybrid Cable Test Set

### Description:

The OFT-850K set consists of SOURCE and TESTER unit. The hybrid cable tester is designed for testing of loss in optical fibers and checking of continuity of copper pairs in hybrid cables. It combines optical light source on one side, optical power meter on other side and copper wires checker. It is ideal for testing of Hybrid System based on cables, which include optical fibers and copper wires. The ruggedized aluminium case makes the unit ideal for field operation. The memory capacity allows storage and uploading of more than 1000 measurements including cable number, result of metallic wires check and optical power value or insertion loss. The tester supports memory download and test report generating. The Lithium rechargeable battery ensures long term working with minimal operation costs.



### Features:

- Hybrid cables - fiber optic testing and copper pairs checking
- Ruggedized aluminium case
- MM or SM applications
- Simultaneous testing of 2 fibers
- Manual operation allows individual fiber or wire check
- Auto operation mode with optical loss pass/fail indication and „ALL OK, SHORT, PINOUT message for metallic wires check
- Able to detect incorrect fiber and wire connection, disconnection and short circuit connection
- Internal memory
- Displayed units: dBm, dB
- High dynamic range
- Built-in charger, battery status indicator
- Easy to use with menu navigation

### Specifications:

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

Optical Power Meter:		
Photodetector	1 mm InGaAs	
Working wavelengths	MM: 850, 1300 nm SM: 1310, 1490, 1550, 1625 nm	can be customized
Uncertainty	± 12%	1310, 1550 nm @ -20 dBm
Resolution	0.01	
Dynamic range	-60 dBm to +10 dBm -53 dBm to +17 dBm	1300, 1310, 1490, 1550, 1625 nm 850 nm

Electrical wires checking:
Electrical wires continuity
Short circuit
Isolation
Electrical contacts -pins interconnection

General specifications:

Dimensions	145 x 145 x 56 mm	without connectors
Weight	400 g	with battery
Temperature operating	-10 to +50 °C	
Temperature storage	-40 to +70 °C	
Humidity (non condensing)	0 to 95%	
IP rating	IP 54	
Battery working time	> 20 hrs	between battery charging

**Application:**

Hybrid (FO + Cu wires) cables testing

**Accessories:**

- Power charging adaptor
- Carrying case
- USB Cable

**Ordering code:**

**OFT-850K - XX - HMA-K - XXX**

<b>M5 (MM)</b> MM 50/125 μm <b>M6</b> MM 62.5/125 μm <b>SM</b> Single mode		<b>Source wavelength</b> as below
<b>Connector type</b> <b>HMA-K</b> Hybrid connector: 2x FO +3x Cu wires <b>other</b> on request		

light source code	Description <sup>1</sup>	application
<b>850</b>	850 nm	
<b>30</b>	1300 nm	MM fiber testing
<b>31</b>	1310 nm	
<b>55</b>	1550 nm	SM fiber testing
<b>62</b>	1625 nm	

Note: 1) other wavelengths on demand