LS-800 – Light Source

The LS-800 is OPTOKON test equipment designed for thorough fiber line diagnostics. Both the laser and the LED source are available in various wavelengths. The model with one or two outputs with two light sources on each port provides a maximum of 4 wavelengths in one device. The changeable adaptor design allows the simple exchange of optical connectors according to actual needs. The light source is also available in an extended (LS-800S) and premium (LS-800P) configuration with extended output power.

Automatic wavelength detection

The automatic wavelength detection (AWD) mode enables to use the OPTOKON Light Source and Power Meter without manually switching the measured wavelength and prevents faulty measurement.

Cycle mode

The cycle mode allows the device to automatically toggle between available wavelengths.

Features:

- Standalone light source
- Up to 4 channel light source
- Modulation CW, 270 Hz, 1 kHz, 2 kHz
- Auto Wavelength Detection mode
- Changeable output adaptors
- Auto Off feature
- Cycle mode

Standard accessories:

- Light source
- FC adapter
- USB cable
- Calibration certificate
- Power charging adapter 220 V AC/5 V DC
- Rigid carrying case
- Rubble cover
- NiMH batteries

Output adapters

TE-ALS-FC

TE-ALS-SC

TE-ALS-ST

Application

- Link Loss Characterization
- Fiber Detection
- Continuous fiber testing
- Visual fault locator

TE-HC-03

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Technical specifications:

General specifications	Value	Unit	Note
Dimensions	165 x 80 x 40	mm	with TE-ASP-FC adapter
Weight	340	g	with battery
Operation temperature	-10 to + 50	°C	
Storage temperature	-40 to + 70	°C	
Humidity (non-condensing)	0 to 95	%	

Transmitter specifications:

Code marking	Wavelength [1] [nm]	Output power [2] [dBm]	Stability [dB]	Note
LD650	650	0	N/A	Visible light
LD850	850	-20	± 0.03 dB	Laser
LED850	850	-20	± 0.03 dB	LED diode
LED30	1300	-20	± 0.03 dB	LED diode
LD31	1310	-9 | -7 | 0	± 0.05 dB	Laser
LD49	1490	-9 | -7 | 0	± 0.05 dB	Laser
LD15	1550	-9 | -7 | 0	± 0.05 dB	Laser
LD62	1625	-9 | -7 | 0	± 0.05 dB	Laser

Ordering code:

LS-800X	-	XX	-	XX	-	P1S1-P1S2/P2S1-P2S2

LS-800	P2	2.5/PC	Adaptor	Note	P1S1	port 1, Wavelength 1
LS-800S	A2	2.5/APC	ST	P2	P1S2	port 1, Wavelength 2
LS-800P			SC	P2,A2	P2S1	port 2, Wavelength 1
			FC	P2,A2	P2S2	port 2, Wavelength 2
			NC	Without adaptor		
			LC	Fixed adaptor LC/PC	Select code from transmitter	
			NLC	Fixed adaptor LC/APC	specifications table above	

Accessories:	
TE-ALS-FC	FC output adaptor
TE-ALS-SC	SC output adaptor
TE-ALS-ST	ST output Adaptor
TE-HC-03	Rigid carrying case

Standard models:	
LS-800-P2-FC-LED850-30/LD31-55	Standard model, FC adaptor, Port1: 850 nm + 1300 nm LED Port2: 1310 nm + 1550 nm laser
LS-800-P2-FC-LD31	Standard model, FC adaptor, port1: 1310 nm laser
LS-800S-P2-SC-LD850-LED30/LD31-55	Extended model, SC adaptor, Port1: 850 nm Laser + 1300 nm LED Port2: 1310 nm + 1550 nm laser
LS-800S-P2-SC-LD31-55	Extended model, SC adaptor, Port1: 1310 nm + 1550 nm laser
LS-800P-P2-SC-LD31-55	Premium model, SC adaptor, Port1: 1310 nm + 1550 nm laser

[1] Additional wavelengths are available on request

[2] LS-800 | LS-800S | LS-800P, output power for dual wavelength port is 3 dB lower

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