

# LS-800 Optical Light Source

## Description:

The LS-800 optical Light Source is a small size low cost item which fulfils all necessary technical field equipment requirements. Available in seven working wavelengths 850, 1300, 1310, 1490, 1550, 1625 nm and a visible 650 nm laser source. The modulation and AWD (Auto Wavelength Detection) functions are available when interacting with the PM-800 Power meter. The rechargeable battery ensures long term working with a minimum life time of 5 years. Batteries can be charged via a USB port or external AC/DC adaptor. The microprocessor controlled charging process ensures optimal battery status and extended operation time.

The changeable connector/adaptor design allows the simple exchange of optical PC or APC connectors (FC, SC or ST) and easy cleaning of the output connector ferrule after removing the connector adaptor. LC/PC and LC/APC are also available.



LS-800-P2-FC-LED850-30/LD31-55

## Features:

- Small size, light weight
- Modulation CW, 270 Hz, 1 kHz, 2 kHz
- AWD function (Auto Wavelength Detection)
- Changeable output connectors
- Battery status indicator
- Up to 7 light source combinations
- Premium type – high power source
- Powered by 3 AA type batteries
- Battery charging via USB port,  $\mu$ P controlled
- 10 min Auto Off

## Standard accessories:

- FC adaptor type
- Power charging AC/DC adaptor
- USB cable
- Calibration certificate
- Hard carrying case
- Rubber cover
- Rechargeable NiMH batteries – 3 pcs

## Options:

- Changeable connector/adaptors:  
TE-ALS-FC, TE-ALS-SC, TE-ALS-ST



TE-ALS-FC



TE-ALS-SC



TE-ALS-ST



TE-HC-03<sup>3</sup>



## Specifications:

### Output power

LD 650 nm	0 dBm
LD 850 nm, LED 850 nm, 1300 nm	-20 dBm
LD 1310, 1490, 1550, 1625 nm	-9 dBm Standard, 0 dBm Premium

### Stability (1 hour, $\Delta/2$ ):

LD 850 nm, LED 850, 1300 nm	$\pm 0.03$ dB
LD 1310, 1490, 1550, 1625 nm	$\pm 0.05$ dB
Dimensions	165 x 80 x 40 mm
Weight	340 g
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	> 100 hrs
Battery life time	> 5 years
Compliant with RoHS-requirements (2002/95/EG, 27.01.2003)	

### Note:

Visible laser

typ. value

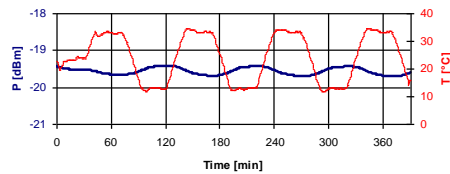
tested after 20 min warm up  
temperature  $23 \pm 1^\circ$

without adaptor  
with battery

between battery charging  
2700 mA/h NiMH

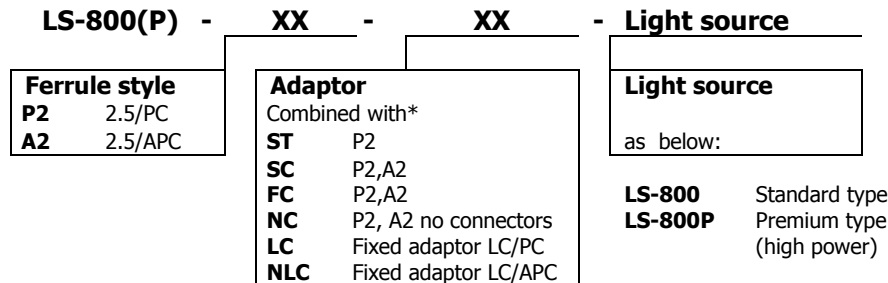
## Application:

- Optical network measurements
- Fiber continuity testing



temperature drift of output level

## Ordering Code:



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

light source code	description	ports	application
LD650	650 nm visible laser	1	visual checking
LD850	850 nm LD - VCSEL laser	1	MM fiber testing
LED850	850 nm LED	1	
LD850/LD650	850 nm LD / 650 nm visible laser	2	
LED30	1300 nm LED	1	
LED30/LD650	1300 nm LED / 650 nm visible laser	2	
LD850-LED30	850 nm LD + 1300 nm LED	1	
LD850/LED30	850 nm LD / 1300 nm LED	2	
LD31	1310 nm LD	1	SM fiber testing
LD31/LD650	1310 nm LD / 650 nm visible laser	2	
LD55	1550 nm LD	1	
LD55/LD650	1550 nm LD / 650 nm visible laser	2	
LD31-55	1310 + 1550 nm LD	1	
LD31/LD55	1310 nm LD/1550 nm LD	2	
LD55/LD62	1550/1625 nm LD	2	
LD850/LD31	850 nm LD / 1310 nm LD	2	MM + SM fiber testing
LD850/LD31-55	850 nm LD / 1310 + 1550 nm LD	2	
LD850-LED30/LD31-55	850 nm LD+1300 nm LED / 1310+1550 nm LD	2	

output power of dual wavelengths port is 3 dB lower than specified

- 1) LD – Laser Diode (LD850 – VCSEL laser)  
LED – Light Emitting Diode
- 2) other wavelengths and port combinations available on request
- 3) TE-HC-03 standard accessories, allows storage of two testers (PM-800 + LS-800 for example)

Ordering example:

LS-800-P2-FC-LD850/LED30

MM light source 850 and 1300 nm, 2 ports, FC connectors

LS-800P-P2-FC-LD31-55

SM light source Premium, 1310 and 1550 nm, 1 port, FC connector

LS-800-P2-NC-LD850-LED30/LD31-55

SM light source, MM+SM, 850, 1300, 1310 and 1550 nm, 2 ports, no connectors