

# FLS-40

## Four-Wavelength Laser Source



The FLS-40 series are a new generation compact multi-wavelength laser source. FLS-40 series offer eight wavelengths. FSL-40A merges two dual-wavelength light sources MM (850nm/1300nm) and SM (1310nm/1550nm) into single unit; and FLS-40B can generate four SM wavelengths – 1310nm/1490nm/1550nm commonly used in PONs (Passive Optical Networks) system, and 1625nm ideally used for FTTx fiber monitoring. Both modes offer excellent stable light for field and laboratory use. It can transmit through a wavelength-identification digital encrypted protocol to enable FibreOptica’s FPM-2x power meter series to recognize the wavelength and automatically shift to a proper calibrated wavelength. The feature can omit the need of communication between two users and hence decrease the potential test errors.

### Key Features

- Palm-size and lightweight
- Generate 8 wavelengths SM and MM lights
- Large LCD with back light
- Continuous Wave or modulated mode at 270Hz, 1KHz and 2KHz
- Automatically recognizes wavelength in use
- Indicates battery capability with auto shut-off function

### Standard Package

- FC/PC, SC/PC and ST/PC interchangeable connectors
- Rechargeable Battery
- Universal AC/DC power adapter
- Operating manual
- Soft carrying case
- Test report

### Related Products

- FLS-20 series
- FLS-22 series
- FLS-24
- FLS-30 Series

### Specifications

Model	FLS-40A	FLS-40B
Emitter type	LD	
Wavelengths (nm)	850/1300/1310/1550	1310/1490/1550/1625
Connector type	Interchangeable FC, SC and ST	
Output power	-5 dBm	
Spectral width	≤ 5 nm	
15 min stability (dB)	850/1300 < 0.1 1310/1550 < 0.05	1310/1550 < 0.05 1490/1625 < 0.1
5 hours stability (dB)	850/1300 < 0.2 1310/1550 < 0.1	1310/1550 < 0.1 1490/1625 < 0.2
Central Wavelength	± 20nm	
Modulation frequencies (Hz)	270, 1K, 2K	
Auto Power Off	Yes	
Backlit	Yes	
Operating Temperature	-10 ~ +50°C	
Storage Temperature	-20 ~ +70°C	
Relative Humidity	<95% (Non-condensing)	
Power Supply	2pcs Ni-MH AA; 6V AC/DC Adapter	
Dimension (mm)	160L x 76W x 45H	
Weight (g)	270	

Note: Specifications subject to change without notice

### Options

Part Number	Descriptions
MFA-FCLC	FC (Male) to LC (Female) connector
MFA-SCLC	SC (Male) to LC (Female) connector
MFA-STLC	ST (Male) to LC (Female) connector
Other types of connectors	Upon request
FLS-Hard-case	Aluminum carrying case
FLS-40-RPC	Rubber Protective Cover

### Order Information

**FLS-40X X – A (850/1300/1310/1550)**  
**B (1310/1490/1550/1625)**