

# FLS-110

NETWORK TESTING—OPTICAL



- Wide-spectrum LED models for PMD measurement
- 2 kHz modulation for fiber identification
- Three-way powering
- Battery life of 14 hours (typical)

## Wide-Spectrum Polarized Source

Specially designed to work with the FTB-5500 PMD Analyzer, the wide-spectrum FLS-110 Optical Polarized Source provides the high power output needed to measure polarization mode dispersion in the field.

## Practical Features

The FLS-110 offers CW and 2 kHz modulation for fiber identification, complete status indicators, low-battery indicator and an auto-off function. The unit is housed in a sturdy, waterproof case surrounded by a shock-absorbing holster that protects the instrument in tough field conditions. Choose between the O band or the C band LED models. Both units feature high and low power levels to maximize battery life.

## Power to Spare

The FLS-110 features three complementary power sources for extended operation. When the rechargeable NiCd battery runs low, the unit automatically switches to the 9 V alkaline battery backup. An AC adapter/charger is also supplied for continuous operation.

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### GENERAL SPECIFICATIONS

Size (H x W x D)	220 mm x 110 mm x 50 mm (8 3/4 in x 4 1/2 in x 2 in)	
Weight	unit	0.75 kg (1 1/2 lb)
	shipping	2.5 kg (5 lb)
Temperature	operating	-10 °C to 40 °C (14 °F to 122 °F)
	storage	-30 °C to 60 °C (-22 °F to 140 °F)
Power	NiCd batteries, 9 V alkaline batteries, AC adapter/charger	
Battery life (NiCd + 9 V)	14 hours (typical)	

### STANDARD ACCESSORIES

User guide, AC adapter/charger, built-in NiCd batteries, 9 V alkaline battery, carrying case, protective holster, shoulder strap and Certificate of Compliance

### POLARIZED SOURCE SPECIFICATIONS<sup>a</sup>

Model	-02P	-03P
Nominal wavelength (nm)	O band	C band
Spectral width (nm)	≥ 35	> 37
Emitter type	LED	SLED
Typical output power (dBm) 9/125 μm	-19	-13

### SAFETY

This product complies with 21 CFR 1040.10 and 1040.11, and with IEC 60825-1:1993+A1:1997. CLASS 1 LED PRODUCT

#### NOTE

a. At 23 °C ± 2 °C.

### ORDERING INFORMATION

## FLS-110-XXX-XX

#### Source code ■

##### Single wavelength

02P = O band LED  
03P = C band LED

#### Connector code ■

58 = FC/APC narrow key  
89 = FC/UPC  
91 = SC/UPC  
EI-EUI-28 = UPC/DIN 47256  
EI-EUI-76 = UPC/HMS-10/AG  
EI-EUI-89 = UPC/FC  
EI-EUI-90 = UPC/ST  
EI-EUI-91 = UPC/SC  
EI-EUI-95 = UPC/E-2000  
EA-EUI-28 = APC/DIN 47256  
EA-EUI-89 = APC/FC  
EA-EUI-91 = APC/SC  
EA-EUI-95 = APC/E-2000

Example: FLS-110-02P-EI-EUI-89 (for FC/UPC interface)

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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit [www.EXFO.com/recycle](http://www.EXFO.com/recycle). Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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