

# FLS-110

## OPTICAL POLARIZED SOURCE



The FLS-110 Optical Source is a handheld polarized source—ideal for field PMD measurements.

### KEY FEATURES

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.

## SPECIFICATIONS

### 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	-20 °C to 60 °C (-4 °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	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 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007 and with IEC 60825-1: 2007.  
**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

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

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