

# OPTICAL POLARIZED SOURCE

## FLS-110

NETWORK TESTING—OPTICAL



- Wide-spectrum LED models for PMD measurement
- 2 kHz modulation for fiber identification
- Three-way powering
- Battery life up to 40 hours

### 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 1310 nm or the 1550 nm 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.

**GENERAL SPECIFICATIONS**

Size (H x W x D)	22 cm x 11 cm x 5 cm	(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)	Up to 40 hours	

**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)	1310	1550
Spectral width (nm)	≥ 35	≥ 65
Emitter type	LED	LED
Typical output power (dBm) 9/125 µm	-16	-20

**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 = 1310 nm LED  
03P = 1550 nm LED

**Connector code**

58 = FC/APC narrow key  
89 = FC/UPC  
91 = SC/UPC  
E1-EUI-28 = UPC/DIN 47256  
E1-EUI-76 = UPC/HMS-10/AG  
E1-EUI-89 = UPC/FC  
E1-EUI-90 = UPC/ST  
E1-EUI-91 = UPC/SC  
E1-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-E1-EUI-89 for FC/UPC interface  
FLS-110-02P-EA-EUI-89 for FC/APC interface

**Rugged Handheld Solutions**

<b>OPTICAL</b>	<b>COPPER ACCESS</b>
- OLTs	- ADSL/ADSL2+, SHDSL, VDSL test sets
- Power meters	- VoIP and IPTV test sets
- Light sources	- Ethernet test sets
- Talk sets	- POTS test sets

**Platform-Based Solutions**

<b>OPTICAL FIBER</b>	<b>DWDM TEST SYSTEMS</b>	<b>TRANSPORT AND DATACOM</b>
- OTDRs	- OSAs	- Next Generation SONE/SDH and OTN testers
- OLTs	- PMD analyzers	- SONE/DSn (DS0 to OC-192) testers
- ORL meters	- Chromatic dispersion analyzer	- SDH/PDH (64 kb/s to STM-64) testers
- Variable attenuators		- T1/T3, E1 testers
		- 10/100M and Gigabit Ethernet testers
		- Fibre Channel testers
		- 10 Gigabit Ethernet testers

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our website at [www.EXFO.com](http://www.EXFO.com).

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