

FD440

Portable Chromatic Dispersion Test Set



Description

The **PE.fiberoptics** FD440 is a fully field-portable and lightweight measurement system.

With separate transmit and receive units installed cables can be characterised quickly to enable an optical network to be efficiently mapped and upgrade options quantified.

Features

- Separate transmit and receive units for installed cable measurement
- Optimised for DWDM applications
- Fully portable for field and network testing
- High speed
- Dynamic range up to 40dB
- 1310nm, 1550nm and L-band operation
- Applicable to all single mode fibers including NDS, DS and NZDS designs
- Dispersion compensation applications
- Spectral attenuation option

Overview

The FD440 portable test instrument has been designed by **PE.fiberoptics** to provide accurate in-system chromatic dispersion measurement. It allows transmission system suppliers and operators to measure the total end-to end dispersion of repeaterless systems with the minimum of disruption.

Chromatic dispersion at any wavelength in the O, C and/ or L bands can be measured, enabling the performance of fiber to be accurately predicted and optimised for all WDM applications.

FD440

Overview (continued)

New or existing installed systems can be assessed for upgrades, and dispersion compensation management schemes measured and monitored over the entire wavelength range. Measurement is controlled by specialist software running on a PC connected to the Receiver. The instrument outputs all major chromatic dispersion measurement parameters.

Outline Specifications

Wavelength range:	1300nm +/-50nm 1550nm +/-50nm contact factory for 1625nm option
Dynamic range:	40dB (1550 XHP LED) 32dB (FD425 HP LEDs) 32dB (standard LEDs)
Dispersion accuracy:	1.5% +/- 0.02ps/nm
Slope accuracy	1.5%
Wavelength accuracy	+/- 0.5nm
Size:	Receiver 35x33x10.5cm Transmitter 36x42x10.5cm.

Ordering information

The FD440 is supplied in either of two configurations both including a notebook PC controller and control software.

FD440-1	Operates in the 1500-1600nm window
FD440-2	Operates in the 1250-1350 nm and 1500-1600 nm windows

Options:

FD406	Traceable calibration fiber (12km)
FD425	Pair of 1310 and 1550 nm high power LEDs
FD440B/1550XHP	Extra high power 1550nm source
FD440B/xxxXHP	Extra high power sources at 1310,1420 & 1600nm etc available - contact factory for details
FD448	Hard cover transit cases
FD449	Spectral attenuation package

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