

# NEXUS-PMD

optical network polarisation mode  
dispersion Test Set



## Description

The **PE.fiberoptics** NEXUS-PMD Polarisation Mode Dispersion (PMD) measurement test set has been specifically designed for use with installed high capacity transmission systems..

## Features

- Interferometric Method with improved accuracy
- Battery-powered integrated unit with remote battery powered source
- Up to 57dB dynamic range
- 0.06 to 130 ps PMD range
- Remote control capability

## Overview

The NEXUS - PMD is one of a series of portable test instruments designed by **PE.fiberoptics** to provide accurate in-system PMD measurement. It allows transmission system suppliers and operators to measure the total end-to-end PMD of systems with the minimum of disruption.

Using the standard lightsource, PMD can be evaluated in the C or L bands, enabling the performance of modern 10 and 40Gbit/s WDM systems to be predicted and optimised.

# NEXUS-PMD

## Overview (continued)

The NEXUS - PMD features a fully integrated battery-powered unit, with a custom PC running Windows OS, all ruggedised for everyday use.

The remote source provides up to two wavelengths. Measurement is controlled entirely from the Receiver.

The NEXUS - PMD instrument outputs all major PMD measurement parameters, including second order PMD.

## Outline Specifications

Wavelength range:	C and or L bands (see below)
Dynamic range:	57dB (dependant on source)
PMD range:	0.06 - 130ps (random) (0 to 400ps scan range)
Measurement speed:	15 15 secs typical
Size/weight:	Receiver 37x26x13cm / 7kg Transmitter 20x13x5cm / 1kg

## Ordering information

The NEXUS - PMD is supplied in a portable form configured as a Main Unit and LightSource together with mains adaptors, and accessories.

NEXUS-C	covers the 1550 nm wavelength range.
NEXUS-L	covers the 1620 nm wavelength range.
NEXUS-CL	covers the 1550 and 1620 nm wavelength ranges.

Other light sources e.g. 1310, 1420 and 1620nm are also available.

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