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Find the *Exfo IQ-3400* at our website: ***Click HERE***

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PDL/OL Meter

IQ-3400B







- Reliable solution for coupler characterization
- Efficiently characterizes wideband passive components
- High spectral range: 1260 nm to 1635 nm





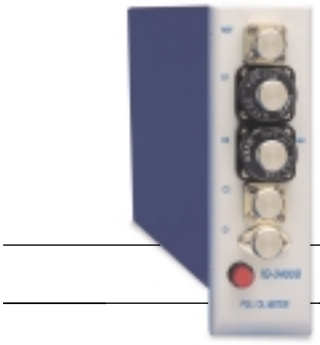
Fiber-optic test, measurement and monitoring instruments

EXFO

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High-Performance PDL Testing

Polarization-dependent loss (PDL) is a critical parameter in passive component manufacturing today. Stringent PDL specifications mean you have to check couplers, fixed attenuators, isolators and other components on the production floor. You need a PDL test solution you can rely on.



Key Features

- Average and standard deviation reporting on multiple measurements
- 0.001dB resolution at 2500 samples per second
- Variable scan time period
- Remote control via GPIB or RS 232
- OCX commands and LabView drivers available

Reliable Backup

Back up your PDL measurements with the IQ-3400B's optical return loss (ORL) test function. PDL can be caused by ORL from a scratched connector. If the PDL reading on a connectorized device seems unusually high, the ORL tester lets you check for loss due to connector damage.

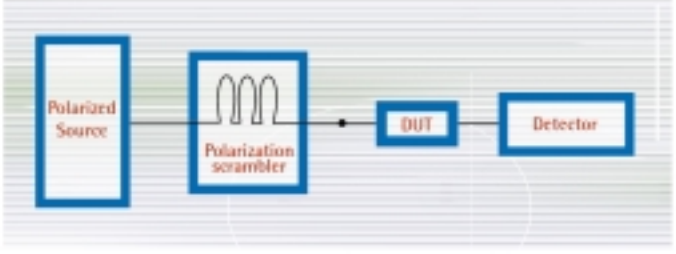


ORL measurement

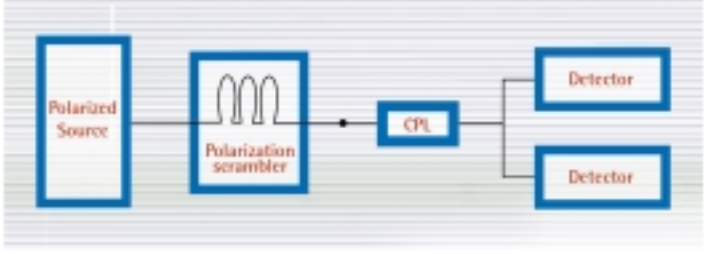
Streamlined Setup

The IQ-3400B PDL/OL Meter uses the scanning method for simple, flexible component characterization on the production floor. Start with a laser source, use the IQ-5100B to scramble the polarization state of the signal, and then take a power acquisition with the IQ-3400B. Getting reliable PDL measurements is easy with the streamlined IQ PDL test setup.

DUT mode



Coupler mode



Automated Features

The IQ-3400B performs the following measurements automatically:

- three-port device characterization
- Polarization-dependent coupling ratio (PDCR)
- Coupling ratio
- Excess loss
- Insertion loss for each branch of a coupled fiber

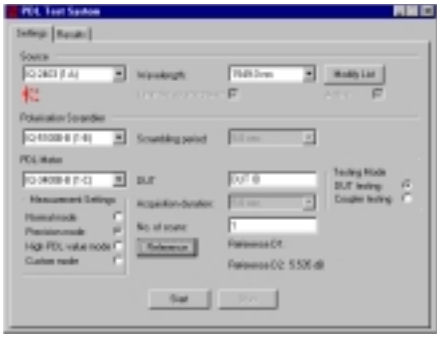
Complete solution

The IQ-5100B Polarization Scrambler teams up with the IQ-3400B PDL/OL Meter for a streamlined, reliable PDL solution. With solid construction and low activation loss, the IQ-5100B offers the sturdiness and versatility you need for passive component testing.



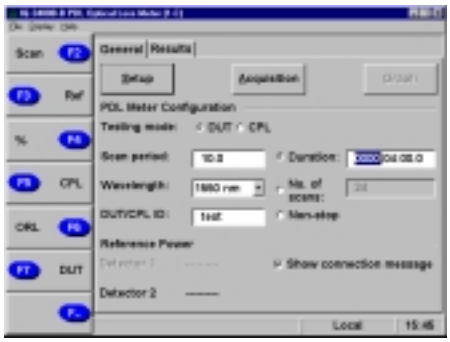
Flexible Software

The IQ-3400B PDL Meter comes with a Visual IQ software application that gives you more flexibility in managing your test configurations.



PDL test system

Select the automatic configuration for quick, simple testing at one of three settings: Normal mode, for quick and efficient testing; Precision mode, for more detailed, accurate results; and High PDL value mode, for testing PDL values higher than 10 dB.



IQ-3400B general interface

To configure advanced settings adapted to your specific testing needs, you can customize your own mode.

General Specifications

Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	–40 °C to 70 °C (–40 °F to 158 °F) Relative humidity: 0 to 95 % (non-condensing) up to 40 °C
Dimensions	Width: 3.8 cm (1.5 in) Height: 12.0 cm (4.75 in) Depth: 26.2 cm (10.3 in) Weight: 0.64 kg (1.45 lb)
Recommended sources	IQ-240x M5 (DFB laser O-, C- or L-band) IQ-2600 (Tunable laser C-band) IQ-2600B (Tunable laser C+L-band) IQ-21xxBP (Polarized LED)

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Specifications[1]

General	
Wavelength range (nm)	1260 to 1635
Detector type	Germanium (2 mm)
Dynamic range (dBm)	9 to –55
Fiber type	9/125 µm
Display resolution (dB)	0.01 and 0.001
Measurement time (s)	1.0 to 9999.0 (typ. 2.5)
Normal Mode	
PDL range (dB)	0.010 to 30
PDL uncertainty[2] (dB)	+0.01/–0.005 –3 % of PDL
Insertion loss uncertainty[3, 5] (dB)	± (0.05 + 5 % of PDL)
Insertion loss repeatability[5] (dB)	± (0.01 + 5 % of PDL)
Coupler Mode	
PDCR range (dB)	0.005 to 30
PDCR uncertainty[5] (dB)	± (0.005 + 10 % of PDCR)
Coupling ratio uncertainty[5] (dB)	± 0.1
Coupling ratio repeatability[4, 5] (dB)	± 0.01
Insertion loss uncertainty[3, 5] (dB)	± (0.05 + PDCR)
Insertion loss repeatability[5] (dB)	± (0.015 + PDCR)

ORL Measurement	
Dynamic range[6] (dB)	0 to 55
Uncertainty[7] (dB)	0 to 35: ± 0.5
	35 to 45: ± 0.7
	45 to 55: ± 1.2

Notes

1. At 23 °C and 1550 nm, all uncertainties are reported with a confidence level of 95 %, with an IQ-5100B and recommended source
2. For PDL < 1 dB, for 2.5 s measurement time
3. Plus connector repeatability
4. For coupling ratio higher than 20 %
5. When the power of detector D2 goes down down to –35 dBm, a remanent noise from the power meter adds uncertainty to the measurements
6. Using a 10 dBm optically isolated source with ± 0.001 dB stability
7. Includes linearity, polarization sensitivity and connector repeatability

Ordering Information

IQ-3400B-B-XX

Connector Code

89 = FC/UPC
90 = ST/UPC
91 = SC/UPC

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EXFO is certified ISO 9001 and attests to the quality of these products, which come with a 24-month warranty and after-sales support service. 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.

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