



Product Description

The PDL1 Polarization Dependent Loss Meter based upon the proven optics of the PDL5 to provide accurate, fast and reliable PDL & IL measurements. With PDL accuracy up to $\pm 0.005\text{dB} + 2\%$ it is the most accurate PDL meter available.

The PDL1 is the practical choice for many types of fiber-optic component testing. An external input with a wavelength range of 1260-1650 allows for the ultimate flexibility.

An intuitive touch screen display simplifies the operation. The meter may be controlled through remote interface (Ethernet or USB). The PDL1 can be used with our free GMS software to automate measurements.

KEY FEATURES

- Ultra stable and accurate PDL, & IL measurements
- External Input
- 4 or 6 states Mueller Matrix methods
- Resolution down to 0.001 dB
- <1 second PDL measurements

APPLICATIONS

- Optical component testing
- Incoming inspection
- QA testing

COMPLIANCE

- UL/CSA 61010
- IEC 61010
- IEC 60825-1 (Class 1)
- FCC Part 15 (Class A)
- EN 61326 (Class A)

IN THE BOX

- PDL1
- AC power cord
- Calibration certificate
- Hybrid test jumper
- SD00 detector cap
- SD01 FC detector adapter

Ordering Scheme & Instructions

1 - Configure PDL1

PDL1-

MOUNT	
	Rubber Leave Blank
F	Folding Feet
E	Rack Ears

2 - Add accessories

Slide detector adapters



More detector adapters available upon request. See more details on pg 110.

SD

TYPE							
00	Cap	14	MU	20	DA113 Barrel	38	MTP0/MPO-16
01	FC	15	E2000	21	BFA3000 Barrel	64	CS
02	ST	16	Universal 2.5.	26	Universal 1.6	67	SN
03	SC	17	MTP/MPO	34	LC Duplex	68	MDC
04	Universal 1.25.	18	LC	35	Optitap		
12	MT	19	MT-RJ	37	MXC		

2U Rack Short ear
2U-RACK-SHORT-EAR



2U rubber bezels
2U-BEZEL



2U Rack Long ear filler plate
2U-RACK-LONG-EAR



Flip-out Feet
CHASSIS-FEET



2U chassis connector plate
2U-CONNECTOR-PLATE



Optical/Electrical Specifications

Parameter	Specification
Fiber Type (μm)	SMF-28e (9/125)
Wavelength Range (nm)	1260 - 1650
Input Connector	FC/APC (PM)
Output Connector	FC/APC (SM)
Detector Type	2mm InGaAs
Power Range (dBm)	5 to -80
PDL Accuracy ^{1,2}	± (0.005dB + 2% of PDL)
PDL Calculation method	Mueller Matrix
PDL Dynamic Range (dB)	0 to 3
Insertion Loss Accuracy (dB)	±0.03 (<5dB loss)
	±0.15 (≥5dB loss)
PDL Measurement time (s) ³	0.7
Remote Interface	Ethernet / USB
Input Voltage	100 - 240 V AC, 50 - 60 Hz
Power Consumption (VA)	80 maximum
Display	Ethernet / USB

Notes:

¹ 6 state mode. x.xxx +5% in 4 state mode.² Measured at 1550. ±0.01dB for all other wavelengths.³ 4-state mode. 1.2s in 6 state mueller matrix mode.

Mechanical/Environmental Specifications

Parameter	Specification
Unit Dimensions W x H x D (cm)	23.5 x 12 x 32.5
Shipping Box Dimensions W x H x D (cm)	36.5 x 39 x 53
Unit Weight (kg)	8
Total Shipment Weight (kg)	9
Operating Temperature (°C)	0 to 55
Storage Temperature (°C)	-40 to 70
Humidity (Non-condensing)	Maximum 95% RH from 0 to 40°C

