

Dual Channel PDL Meter

PL2100

In fiber optic communication systems, Polarization Dependent Losses of components can increase signal distortion and result in performance degradation. Therefore, for the fiber optic component manufacturers, an accurate and efficient PDL measurement is very important.

FIBERPRO's Dual Channel PDL Meter PL2100, measures Polarization Dependent Loss (PDL) and Insertion Loss (IL) of optical components simultaneously as a function of wavelength (wavelength-swept measurement). In addition, optical power measurement function is provided.

FIBERPRO's powerful PDL measurement method - fast "Polarization scanning" (TIA/EIA-455-157) - enables PL2100 to achieve very high accuracy with the world's fastest measurement speed (0.1 sec. typ.)

The PL2100 is an ideal solution for measuring PDL and IL of DWDM components efficiently and accurately.



Features

- Acquires PDL and IL measurements simultaneously
- The fastest measurement speed (0.1 sec. typ.)
- Polarization scanning method (all-states method)
- All fiber technology
- Channel : Two channels
- Optical power meter function
- No calibration needed
- GPIB and RS232 remote interface

Specifications

Operation Wavelength Range	
PDL	1270 ~ 1620nm
IL	1270nm, 1310nm, 1490nm, 1520 ~ 1620nm
Resolution	0.1 dB, 0.01 dB, 0.001 dB
PDL/IL Measurements	
PDL Accuracy	(0.3 + 5% of PDL) dB maximum (0.3 + 2% of PDL) dB typical
IL Accuracy	(0.1 + 2% of IL) dB maximum
PDL/IL Measurement Speed	0.1 sec. Typ.
PDL Range	0 to 5 dB
IL Range	50 dB
Power Measurements	
Power Accuracy ¹⁾	±0.2 dB @ -10 dBm
Power Range	+3 dBm to -57 dBm
Operating Temperature	10°C ~ 40°C
Storage Temperature	0°C ~ 60°C
Dimensions (W x D x H)	210mm x 420mm x 88mm

1) The average optical power after DUT must be greater than -22 dBm.
(corresponding to 20 dB of IL when the input optical power is maximally launched)

*APC type connector only at External source input adaptor

The specifications and technical information contained herein are subject to change without notice and are furnished without charge or obligation. They are given and accepted at recipients sole risks.

Ordering Codes

PL2100 - (1) - (2)

1. internal source ➔ included (S), not included (X)
2. connector type ➔ FC/SPC (F/P), FC/APC (F/A)

Example : PL2100-S-F/A

➔ Dual channel PDL meter with FC/APC connectors. (internal source included)



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