

Programmable PMD Emulator Solution

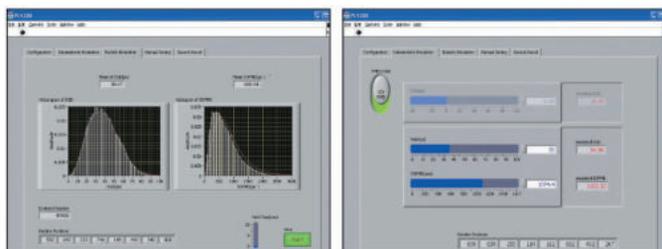
PE4200

FIBERPRO's PMD(Polarization Mode Dispersion) Emulator Solution, PE4200, can simulate the effect of PMD of several hundreds kilometers of optical fiber on the signal. (Pseudo-Maxwellian distribution) With its unique all fiber technology, a user can control 1st order PMD, 2nd order PMD and generate random PMD for Maxwellian distribution.

Furthermore, the variability of PE4200 makes itself to be easily customized for special request, such as special PMD range, tunable mean DGD function in random mode and speed control function etc.

PMD

FES



Windows of GUI. PE4200

Features

- All fiber configuration :
Low Loss(IL : ~ 1.0 dB typ. PDL : ~ 0.1 dB typ.)
- Customized DGD configuration and PMD range :
for 10G, 40G applications, etc.
- High repeatability / High stability
- All order PMD emulation : Independent generation
of 1st order PMD(DGD) & 2nd order PMD(SOPMD),
Higher order PMD
- Maxwellian distribution of PMD
- Variable mean DGD : Tunable statistics
- Dynamic emulation speed control
- Powerful GUI : Deterministic Statistic Emulation,
Virtual(trial) DGD mode, Manual Tuning
- Easy expansion(Cascading mode. PM fiber option)
- Various customized options

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Specifications

Function	Controllable 1 st order PMD generation (DGD)
	Controllable 2nd order PMD generation
	Random PMD generation (Maxwellian distribution)
Standard DGD Range	0 ~ 100 ps ¹⁾
Insertion Loss	< 2.0 dB
Average PMD	38 ps (tunable) ²⁾
2 nd order PMD Range	0 ~ +2,500 ps ^{2 3)}
Switch Speed	200 ms Max ⁴⁾
Operating Wavelength Range	1520 ~ 1620 nm
IL Variation	< ±0.2 dB
PDL	< 0.3 dB
Return Loss	> 40dB (PC connector), > 60dB (APC connector)
Interface	Operating software by GPIB / RS232
Optical Power Handling	> 23 dBm
Connector Type	FC/PC, FC/APC, SC/PC, SC/APC
Operating Temperature	20°C ~ 50°C
Storage Temperature	0°C ~ 60°C
Power Supply	100 ~ 240 V, 210 ~ 250 V, 50Hz/60Hz
Dimensions (W x D x H)	448mm x 410mm x 108mm (With rubber cover)
	426mm x 380mm x 86mm (Without rubber cover)

1) Other ranges are available (ex. 0~30 ps, 0~120 ps, 0~200 ps)

2) In case DGD is 0~100 ps. Tunable mean DGD function available. (Various mean DGDs can be generated.)

3) In case DGD is 0~100 ps. 2nd order PMD range depends on DGD range.

4) Speed control function available

Ordering Code

PE4200-(1)-(2)-(3)

1. PMD Range ➡ 100 : 0~100 ps

25 : 0~25 ps

2. Other Options ➡ X : None

P : PMF output (please specify the length)

S : Splitting power monitor

3. Connector Type : F/P(FC/PC), F/A(FC/APC), S/P(SC/PC), S/A(SC/APC)

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