



mesomatic
fiberoptics



Yokogawa OSA at ETH Zurich.

Optics & Photonics Blog

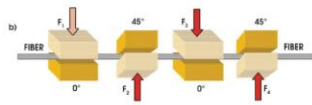
Polarization Control and Test – Luna offers a broad spectrum of devices

Luna is very well known for its High-Resolution Reflectometers and Component Analyzers. But did you know that a very large portfolio is also offered for control and testing of polarization?

There are various methods for controlling polarization, which differ in performance and complexity. They provide the right solution for many applications.

Comparison of Luna's Polarization Control Technologies

Fiber Squeezing



Example Products



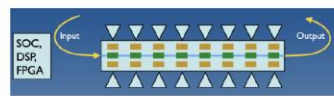
MPC-201



PCD-M02

- Full polarization control
- Example: MPC-201
- Switching Speed: 35 us
- Fiber based
- Low losses <0.05 dB
- PDL < 0.01 dB
- Wide BW: C, L and O bands
- High power handling
- Low cost
- Lower accuracy
- Mechanical with moving parts
- Can't control phase
- 850nm, 1060nm, 1310nm and 1550nm, or others

Lithium Niobate



Example Products



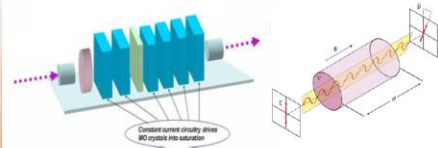
NRT-2500



NRT-500
(coming soon)

- Full polarization control
- Example: NRT-2500
- Switching Speed: 1.4 us
- Solid states
- High losses < 3 dB
- PDL < 0.2 dB
- Limited BW: Either C/L or O
- Low power handling
- High cost
- High reliability and accuracy
- Not Mechanical, no moving parts
- Can control phase 0-2pi
- 1310nm, 1550nm or 1060nm

Magneto Optic Crystals



Example Products



PSGA-101



PSG-001

- Limited** polarization control
- Example: PSG-001/PSW-002
- Switching Speed: 50 us
- Solid state
- Moderate losses < 1 dB
- PDL < 0.1 dB
- Limited BW: Either C/L or O
- Low power handling
- Low cost
- High reliability and accuracy
- Not Mechanical, no moving parts
- Can't control phase
- Only 1310nm or 1550nm

Polarization Control and Emulation Instruments

Scramble/Control



PCD-104
Scramble



MPC-201
Control/Scramble



MPC-202
Control/Scramble



MPC-203
Control/Scramble

Stabilize/Generate



POS-202
2-port Stabilize



POS-203
3-port Stabilize



PSY-201
Control/Scramble/Generate/
Stabilize/Monitor

Emulate



PDLE-101
PDL Emulator - Continuous



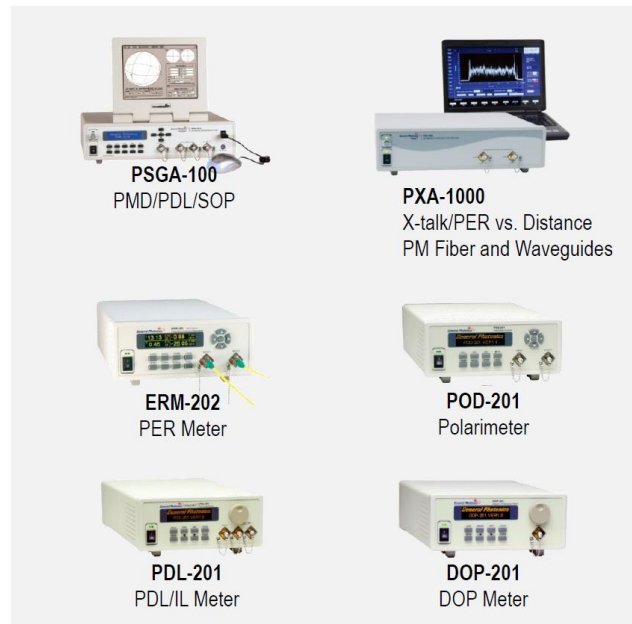
DGD-1000
DGD Emulator - Continuous



PMD-1000
DGD/SOPMD Emulator - Digital

For the completion of a measuring system appropriate measuring instruments are available.

Polarization Related Test and Measurement Instruments



Your Application - our Challenge

Let us know what your optical metrology requirements are. We benefit from a good network and deep knowledge in optics, fiber optics and photonics. It will be an honor for us to help you with your challenge.

[Contact me](#)

I am looking forward getting in contact with you to help you finding solutions for your measuring challenges. I am responsible at Mesomatic Messtechnik AG for the high-end segment in optics & photonics.

Do not hesitate to contact me by phone, email or follow me on LinkedIn - do not miss our new blog entries.

Best regards

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