

PTM-100

Polarity Test Meter



Product Overview

The Polarity Test Meter, PTM-100, is an easy-to-use instrument specifically designed to check the polarity of multifiber cable assemblies. The PTM is equipped with a touchscreen interface to allow for one-touch testing of typical pre-programmed types A, B, C, and unlimited configurable custom profiles. The Visual Fault Locator (VFL) mode enables easy manual identification of any possible damaged or crossed fibers.

The PTM-100 can be built with up to 288 channels in one chassis and expanded to 432, if needed. The PTM-100 can operate on a stand-alone Santec platform which does not require a PC to operate. There is still the possibility of remote operation through USB or Ethernet. You can use the free Cable Assembly Software to save your polarity results along with your IL/RL results. The included PTS software package also allows you to test just polarity with results exported to Microsoft Excel.

The PTM has been developed with customers in mind by looking at the growing demand to reduce testing time and to increase throughput with a user-friendly experience.

Features

- Fast Pass/Fail results
- Touchscreen display and operation
- Up to 288 channels in one box
- Test results can be exported to Excel



Applications

- MTP/MPO cable assembly mapping
- Multifiber assemblies
- Complex network mapping
- QC inspection

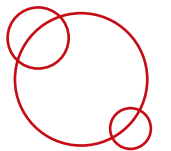
Quick Traceable Testing



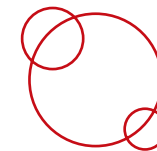
The PTM-100 can verify 12 channel assemblies in 1 second and up to 288 channels in < 10 seconds. The instrument helps eliminate operator error regarding fiber mappings.

Endless Configurations

Common polarities are pre-configured while custom polarity types are easily created in seconds without any limitation. The “Discover” function tests a known device and saves the measured mapping for future test profiles.



Test Any Device



The PTM-100 is built with 12 fiber MPO connectors. If needed, use breakout cables as output and input jumpers to match the device under testing. The same PTM can test both SM and MM assemblies and it's possible to stack units when channel count demands get larger.

Ordering Scheme & Instructions

1. Configure PTM Polarity Test Meter

Single-Mode Version

PTM-100 - **-MA**



| CHANNELS | |
|----------|-------------|
| 012 | 12-channel |
| 024 | 24-channel |
| 036 | 36-channel |
| 048 | 48-channel |
| 072 | 72-channel |
| 144 | 144-channel |
| 288 | 288-channel |

2. Add Accessories

2U-Rack-Short-Ear

2U Rack Short Ear



2U-Rack-Long-Ear

2U Rack Long Ear Filler Plate



2U-Connector-Plate

2U Chassis Connector Plate



2U-Bezel

2U Rubber Bezels



PTM Optical / Electrical Specifications

| Parameter | Specification | |
|---------------------------|------------------------------|-----------------------|
| Operating Wavelength (nm) | 650 | |
| Laser Class | 2 | |
| Optics Interface | Output | MTP/MPO APC Male (SM) |
| | Input | MTP/MPO UPC Male (MM) |
| Detected Polarities | A, B, C, D & custom mappings | |
| Test Time | <2 s | |
| IL Tolerance | <6 dB | |
| Remote Interface | Ethernet / USB | |
| Display | 5» Touchscreen ¹ | |
| Input Voltage | 100 - 240 V AC, 50 - 60 Hz | |
| Power Consumption (VA) | 80 Maximum | |

Notes:

¹ only available on 2U half rack up to 48 ch

Mechanical / Environmental Specifications

| Parameter | Specification | |
|--|-----------------------------|------------------|
| | 2U Half Rack | 3U Full Rack |
| Max Channel Count | 48 | 288 |
| Unit Dimensions W x H x D (cm) | 23.5 x 12 x 32.5 | 48.5 x 44.5 x 13 |
| Shipping Box Dimensions W x H x D (cm) | 36.5 x 39 x 53 | 65 x 58 x 33 |
| Unit Weight (kg) | 3 | 7 |
| Total Shipment Weight (kg) | 4 | 8 |
| Operating Temperature (°C) | 0 to 40 | |
| Storage Temperature (°C) | -40 to 60 | |
| Humidity (Non-Condensing) (°C) | Maximum 95% RH from 0 to 40 | |



In the Box

PTM-100 - Polarity Test Meter

- PTM-100
- USB A to USB B cable (1.5 m)
- Ethernet cable (1.5 m)



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