PTM-100
Polarity Test Meter

PTM 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
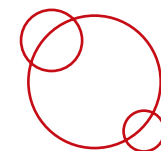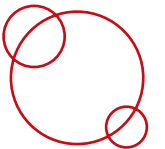- Complex network mapping
- QC inspection

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.

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 Tolerence	<6 dB	
Remote Interface	Ethernet / USB	
Display	5» Touchscreen [1]	
Input Voltage	100 - 240 V AC, 50 - 60 Hz	
Power Consumption (VA)	80 Maximum	

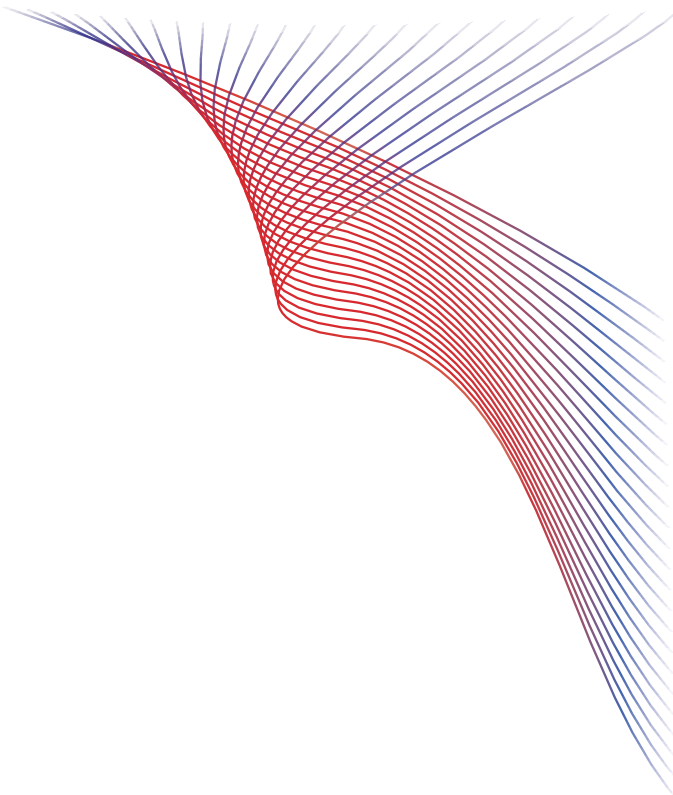**Notes:**
[1] only available on 2U half rack up to 48 ch

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)

Ordering Scheme & Instructions

1. Configure PTM Polarity Test Meter

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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

santec

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