

SmartClass[™] Fiber MPOLx MPO Optical Loss Test Sets



Specifications

Power Meter

| MPO-12 Interface pinned. Compatible with 50/125 µm/PC Multimode MPO-12, 9/125 µm/APC Singlemode MPO-12. MTP Adapter with Shutter |
|---|
| |
| InGaAs |
| 850 to 1550nm |
| 850nm, 1300nm, 1310nm, 1550nm |
| Multimode: 850nm, 1300nm Singlemode: 1310nm, 1550nm |
| -50 to +3 dBm |
| +3 dBm |
| Multimode: ± 0.7 dB ± 1 nW Singlemode: ± 0.6 dB ± 1 nW |
| ±0.15dB |
| dB, dBm |
| 0.01 dB |
| Absolute, relative, pass/fail, |
| 20 minutes |
| |

Light Source

| Specification | Multimode | Single-Mode | |
|---------------------------------------|---|--|--|
| Optical interface | MPO-12 Interface pinned, 50/125 μm/ PC Multimode. MTP Adapter with Shutter | MPO-12 Interface pinned, 9/125 µm/ APC Singlemode. MTP Adapter with Shutter | |
| Source type and wavelengths | LED source 850 nm ± 20 nm 1300 nm ± 20 nm | Fabry-Perot laser diode 1310 nm ± 20 nm 1550 nm ± 20 nm | |
| Spectral width (FWHM) | <170nm | <5nm | |
| Launch condition | Encircled Flux compliant to TIA-526-14 and IEC 61280-4-1 ² | | |
| Output power | -21 to -29 dBm | -1 to -8 dBm | |
| Stability ¹ 15 min/8 hr | ±0.05 / 0.25 dB | | |
| Source modes | CW, tone, auto- λ , multi- λ | | |
| Tone generator | 270 Hz, 1 kHz, 2 kHz | | |

1. Single Channel, +5 to +45°C with ΔT = ±0.3 K after a 20-minute warm-up

 At the output of the EF-TRC. Variations between EF measurement equipment may occur but EF compliance can be expected with a 95% confidence factor. Valid for IEC 61280-4-1 at 850 nm.

1. Under reference conditions at calibrated wavelengths, -5 to +45°C.

Loss/Length Application

| Specification | Multimode | Single-Mode |
|---|---|--------------|
| Testing speed for 12 channels ¹ | 6 seconds max | |
| Pass/fail limit standards | TIA 568.3, ISO 11801 and ISO/IEC 14763-3, link validation | |
| Fiber types | 50/125 µm | 9/125 µm |
| Nominal test wavelengths | 850/1300 nm | 1310/1550 nm |
| Maximum length measurement | 1 km | 10 km |
| Length measurement accuracy | ±1.5 m ±1% of length | |
| Loss measurement uncertainty ^{2,3} | ±0.15dB | |

1. Excludes referencing and connection times

2. Excluded fiber connector uncertainties.

3. After 20 min warm up, at constant temperature, no charging. For multimode loss measurements with 50/125 μm fibers (NA = 0.20). For single-mode loss measurements with 9/125 μm fibers (NA = 0.10).

Patchcord Microscope (PCM)

| Specification | | | | | |
|-----------------------------------|------------|---|--|--|--|
| Optical interface | | FMAE MPO (many other adapters available) | | | |
| Auto pass/fail analysis standards | | IEC 61300-3-35 and custom limits | | | |
| Live image | | 320 x 240 x 8 bit grey, 10 fps | | | |
| Light source | | Blue LED, 100.000+ hours life | | | |
| Lighting technique | | Coaxial | | | |
| Magnification | Horizontal | 740/370 μm | | | |
| field-of-view low/high | Vertical | 550/275 μm | | | |
| | | | | | |

External USB connected P5000i digital inspection probe supported

PCM models include 2330/11S, 2330/01S and 2330/31

General

| Specification | without PCM | with PCM | |
|---------------------------------------|---|---|--|
| Display | High-contrast 3.5" color LCD with touch-screen functionality | | |
| Data memory | Up to 10.000 loss test results (>1000 including inspection) | | |
| Data readout | Via client USB interface, and wireless via USB WiFi/Bluetooth adapter (option) | | |
| Electrical interfaces | 2 x USB host, 1x micro USB, Ethernet | | |
| Power supply | 12 V, 2A with interchangeable wall plug for EU, UK, US, and AU | | |
| Battery | Li-ion pack 3.7 V, 20 Wh (optional 8 NiMH/dry batteries) | | |
| Battery life (Li-ion battery pack) | >12 hr | | |
| Recommended recal. interval | 3 years | | |
| Dimensions (H x W x D) | 208 x 112 x 64 mm (8.2 x 4.4 x 2.5 in) | 208 x 153 x 64 mm (8.2 x 6.0 x 2.5 in) | |
| Weight | 750 g (1.6 lb) | 850 g (1.85 lb) | |
| Operating temperature range | -5° to +45°C (23° to 113°F) | | |
| Storage temperature range | −25° to +55°C (−13° to 131°F) | | |



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