

PM-240-SNMT Multifiber Optical Power Meter

**Up to
16 Fibers**

Description:

The PM-240-SNMT optical power meter is designed to measure absolute or relative optical power in optical networks terminated with 16 multifiber SN-MT connectors. The tester can measure simultaneously optical power level in all up to 16 fibers of SN-MT connectors, it can recognize "live" and "dark" fibers. It eliminates the need of fan-out from multi to single fiber connectors. Together with LS-240-SNMT light source can measure Insertion loss in all 16 fibers at same time, in addition it is able to check the polarity status of fibers interconnection between both SN-MT connectors. The input port ensures interconnection between measured SN-MT connector and 16 photodetectors. Due to physical contact between connectors the cleanness of both is required, preferably the visual check before measurement is suitable.

The internal memory allows measurement storage and uploading of more than 500x 16-fibers cables including cable and fiber number, wavelength, absolute value or insertion loss. The Data Exporter software allows the user to export stored data to Excel sheet, or other applications.

The rechargeable Li-Pol battery ensures long term operation with a minimum service life of 2 years. Batteries can be charged via a USB port.



Features:

- Easy measurement of multifiber connectors
- SN-MT input interface
- Absolute and Relative optical power measurement
- Displayed units: dBm, dB
- Portable power meter
- USB probe – accessory of Testing Workplace
- InGaAs or Si photodetector
- Display backlight
- Firmware upgrade via USB
- Internal memory
- Battery charging via USB port
- Powered by Li-Pol rechargeable battery
- Polarity Test (with LS-240 SN-MT)

Specifications

| Parameter: | | Note: |
|-------------------------------|--|---|
| Photodetector | InGaAs | |
| Working wavelengths | MM 850, 1300nm SM 1310, 1550nm | can be customized |
| Dynamic range: | -50 dBm to +10 dBm -45 dBm to +15 dBm | 1300, 1310, 1490, 1550, 1625 nm 850 nm |
| Photodetector | Si | |
| Working wavelengths | 850 nm | |
| Dynamic range | -50 dBm to +10 dBm | 850 nm |
| Uncertainty | ± 5% | 1310, 1550 nm @ -20 dBm |
| Resolution | 0.01 | |
| AWD Detection | -50 dBm -45 dBm | 1300 – 1550 nm 850 nm |
| Dimensions | 170 x 90 x 45 mm | W x H x D |
| Weight | 0.5 kg | |
| Temperature operating storage | -10 to +50 °C -40 to +70 °C | |
| Humidity (non condensing) | 0 – 95% | |
| Battery working time | > 300 hrs | |
| Battery life time | > 2 years | 3000 mAh Li-Pol |

Compliant with RoHS-requirements (2002/95/EG, 27.01.2003)

Ordering code:

PM-240-SNMT 16 channels power meter, InGaAs photodetector, input MTP connector with pins

PM-240-SNMT-SI 16 channels power meter, Si photodetector, input MTP connector with pins

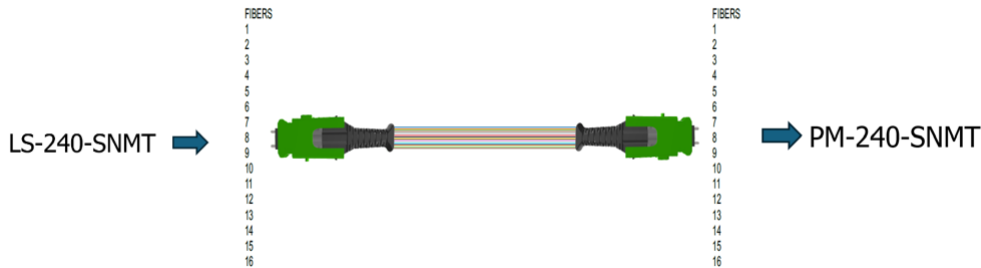
Standard accessories:

- Power meter
- Power charging adaptor
- USB connection cable
- Hard carrying case

Options:

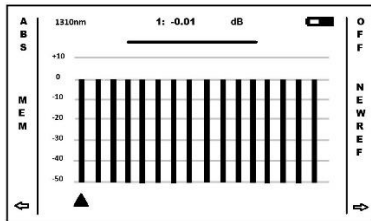
- Master SN-MT connector patchcord

Application:



Connecting diagram Light source and Power meter

Display of measured results:



Bar view

| Channel | Power (dBm) | Channel | Power (dBm) |
|---------|-------------|---------|-------------|
| 1 | -3.55 | 9 | -3.28 |
| 2 | -4.05 | 10 | -2.98 |
| 3 | -3.43 | 11 | -3.85 |
| 4 | -4.55 | 12 | -3.25 |
| 5 | -2.90 | 13 | -4.10 |
| 6 | -3.90 | 14 | -4.30 |
| 7 | -4.05 | 15 | -3.90 |
| 8 | -3.65 | 16 | -4.05 |

Table view

| POLARITY TEST | | | |
|---------------|----|----|----|
| LS | PM | LS | PM |
| 1 | 1 | 9 | 9 |
| 2 | 2 | 10 | 10 |
| 3 | 3 | 11 | 11 |
| 4 | 4 | 12 | 12 |
| 5 | 5 | 13 | 13 |
| 6 | 6 | 14 | 14 |
| 7 | 7 | 15 | 15 |
| 8 | 8 | 16 | 16 |

Polarity test