



technical data sheet

Product Code :	2040430
Description :	QPM - INGAAS POWER METER 6 WAVELENGTHS



Description

The QPM is a portable optical power meter designed to measure optical power and attenuation in fiber optic networks. Its InGaAs sensor provides an accuracy of ± 0.2 dB over a wavelength range of 800–1700 nm and supports six calibrated wavelengths: 850, 1300, 1310, 1490, 1550 and 1625 nm. The TWIN function, when used in combination with the QLS-QUAD laser source, automatically detects the transmitted wavelength, simplifying measurements and reducing the risk of errors.

Main functions

- **Automatic wavelength recognition (TWIN function):** in combination with the Qubix QLS-QUAD stabilized laser source, the instrument automatically recognizes the transmitted wavelength. This simplifies operator workflow and eliminates potential manual selection errors.
- **Frequency detection (modulation tones):** automatically identifies network modulated tones at 270 Hz, 330 Hz, 1 kHz, and 2 kHz.
- **Reference level setting (REF):** allows setting and storing a reference value for direct reading of link loss/attenuation in dB.
- **Internal memory and data management:** enables saving up to 1000 measurements directly via the instrument keypads. Stored data can be downloaded to a PC via USB port for test report generation (in CSV format).
- **Backlit LCD display:** clear interface with simultaneous display of power, wavelength, frequency, and battery status, ideal also for dark environments.
- **Power management and charging:** Auto-off function for energy saving and integrated Type-C port for charging and PC connection to download data.



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Technical specifications

Parameter	Product specifications
Sensor	InGaAs
Operating wavelength range	800 ÷ 1700 nm
Calibrated wavelengths	850 / 1300 / 1310 / 1490 / 1550 / 1625 nm
Power measurement range	-70 dBm ÷ +10 dBm
Accuracy	± 0,2 dB
Resolution	0,01 dB
Displayed measurement units	dBm / dB / mW
Frequency tone detection	270 Hz / 330 Hz / 1 kHz / 2 kHz (da -40 a +10 dBm @ 1550nm)
Internal memory	1000 storable measurements
Electrical / data interface	USB Type-C port (for charging and data transfer)
Optical interface	Interchangeable FC or SC connector (adapters included)
Power supply	2x Ni-MH AA rechargeable batteries (not included) / external DC 5V 1A power adapter
Battery life	Approximately 40 hours of continuous use in OPM mode
Operating temperature	-10 °C ÷ +50 °C
Storage temperature	-20 °C ÷ +70 °C
Dimensions and weight	160 mm (L) × 76 mm (W) × 45 mm (H) / 265 g
Included accessories	FC adapter, SC adapter, power adapter, USB Type-C cable, test report, quick guide, carrying case

Quick user guide

- Powering on and preparation:**
 - Turn on the instrument by pressing and holding the power button.
 - Check battery level; if discharged, connect the Type-C cable to the power adapter for charging or direct operation.
- Fiber connection:**
 - Open the protective cap of the optical port and connect the properly cleaned patch cord/link using the dedicated adapter (FC or SC).
- Reference execution:**
 - Before measuring link attenuation, setting a reference is required.
 - Connect the power meter directly to the light source using an appropriate patch cord.
 - Select the test wavelength or activate automatic recognition with the laser source using the TWIN function.
 - Store the received power value by pressing the REF button.
- Measurement execution:**
 - Insert the optical fiber link to be tested between the light source and the power meter.
 - Switch to the desired measurement unit among dBm (absolute power), mW, or dB (relative attenuation).
 - Read the link attenuation or power value directly on the display.
- Data storage:**
 - Use the integrated keypad controls to save measured values to internal memory (up to 1000 measurements).
- Power off and maintenance:**
 - Turn off the instrument after use and always replace the protective dust cap on the optical port to safeguard the InGaAs sensor.

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