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Data Sheet

August 13, 2026

SANWA

Sanwa OPM37LAN Optical Power Meter

Sanwa OPM37LAN Short-Wavelength Fiber Optical Power Meter The Sanwa OPM37LAN is a handheld optical power meter for short-wavelength fiber (LAN/plastic and silica) with an FC-type connector adapter. A silicon photodiode (5.8 × 5.8 mm) reads 650, 780, 800, 850, and 880 nm directly. Range is -60.00 dBm to +13.00 dBm (1.000 nW to 20.00 mW) with auto 8 ranges. Display is 4-digit. RS-232C, relative, offset, and 20-sample averaging are included. Discontinued (production complete). Optical LAN and short-wavelength fiber installation; 650/850 nm link maintenance; relative loss measurements; TOSLINK and SC via optional adapters. The Sanwa OPM37LAN is a handheld optical power meter for short-wavelength fiber (LAN/plastic and silica) with an FC-type connector adapter. A silicon photodiode (5.8 × 5.8 mm) reads 650, 780, 800, 850, and 880 nm directly. Range is -60.00 dBm to +13.00 dBm (1.000 nW to 20.00 mW) with auto 8 ranges. Display is 4-digit. RS-232C, relative, offset, and 20-sample averaging are included. Discontinued (production complete). Optical LAN and short-wavelength fiber installation; 650/850 nm link maintenance; relative loss measurements; TOSLINK and SC via optional adapters.



MODEL

Sanwa OPM37LAN

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

OPM37LAN

LISTING

<https://aumictechlabs.com/products/opm37lan-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Sanwa OPM37LAN is a portable optical power meter engineered for precise measurement across fiber optic LAN networks and field installations. Built around an SI photodiode sensor, it delivers absolute and relative power measurements in both dBm and watts, with 8 automatic measurement ranges spanning 1 nW to -20.00 mW. The instrument supports five selectable wavelengths - 650 nm, 780 nm, 800 nm, 850 nm, and 880 nm - making it compatible with standard telecommunications and local area network deployments. A 4-digit display provides real-time readings at 3.33 samples per second, while a 20-data sequential averaging function reduces noise in fluctuating signal environments. Measurement accuracy is $\pm 5.0\%$ with 0.01 dB resolution. RS-232C serial output (9600 bps, 8 data bits, no parity, 1 stop bit, hardware flow control) enables direct PC data logging and analysis. Powered by a 006P alkaline battery or optional AC adapter (AD-30), the meter includes a 2-meter sensor extension cord and interchangeable optical connector adapters. Additional connector types SC, unidirectional TOSLINK, and duplex TOSLINK - are available as optional accessories, allowing rapid field reconfiguration. Operating range is 18°C to 25°C at 80% RH maximum; input power is capped at 20 mW to protect the photodiode from overload damage.

Technical Specifications
Measuring Range: 1 nW to -20.00 mW
Accuracy: $\pm 5.0\%$
Resolution: 0.01 dB / $\pm 0.01\%$
Wavelengths: 650 nm, 780 nm, 800 nm, 850 nm, 880 nm (selectable)
Optical Sensor: SI photodiode
Display: 4-digit
Measurement Ranges: 8 automatic
Sampling Rate: 3.33 Hz
Operating Temperature: 18°C to 25°C, 80% RH maximum
Maximum Input Power: 20 mW

Key Features
dBm and watt measurement modes
Relative value measurement (dBm(REL) and W(REL))
20-data sequential averaging
RS-232C interface with continuous ASCII output
Interchangeable optical connector adapters (FC standard; SC, TOSLINK variants available)
Dual power: 006P battery or AC adapter

Typical Applications
Fiber optic network commissioning and verification
LAN installation and troubleshooting
Field power level auditing and documentation
Connector and splice loss measurement via relative mode

Compatibility & Integration
RS-232C serial communication enables direct integration with PC-based measurement systems and automated data logging platforms. Connector adapter options support FC, SC, and TOSLINK interface standards. Sensor extension cord (2 meters) permits remote probe placement in confined or elevated installations.

Features & description

From manufacturer datasheet

Features

- Direct-reading wavelengths 650, 780, 800, 850, 880 nm • -60.00 to +13.00 dBm / 1 nW to 20 mW • Si photodiode, FC (F01) adapter standard • 0.01 dB resolution; +/-5 percent accuracy at -20 dBm / 10 μ W
- RS-232C (KB-RS-OPM cable); 2 m sensor extension • 006P alkaline or AD-30-2 AC adapter

OPM37LAN Characteristics / Specifications

PARAMETER	VALUE
Model	OPM37LAN
Manufacturer	Sanwa Electric Instrument
Instrument Type	Optical Power Meter
Series	Sanwa OPM fiber power meters
Alias	OPM37LAN; OPM 37 LAN; OPM37 LAN
Display	4-digit digital
Ranges	automatic 8 range
Optical Sensor	Si photodiode, 5.8 × 5.8 mm
Power Range dBm	-60.00 dBm to +13.00 dBm
Power Range Watts	1.000 nW to 20.00 mW
Optical Input	direct to photodiode
Reference Wavelengths	650, 780, 800, 850, 880 nm
Accuracy	+/-5 percent at direct-reading wavelength, -20 dBm / 10 µW
Resolution dBm	0.01 dB in dBm/dB REL mode
Resolution Watts	0.01 percent in W/W REL mode
Measuring Cycle	3.33 times per second
Averaging	20-data sequential averaging
Relative Modes	dB REL andWREL
Offset	yes
Interface	RS-232C
Standard Connector	FC type (F01) adapter
Sensor Extension	2 m cord
Power Battery	006P alkaline
Power Adapter	AD-30-2 (also listed AD30-2)
Body Size	164 × 85 × 35 mm

PARAMETER	VALUE
Body Mass	about 300 g
Sensor Head Size	25 mm diameter x 26 mm
Sensor Head Mass	25 g
Standard Accessories	dedicated sensor, extension cord, AC adapter, FC adapter, manual
JAN Code	4981754093226
Status	discontinued / production complete
Accuracy Ambient	18 C class, max 80 percent RH no condensation (listing)
Application Class	fiber light short wavelength 5 ranges versus long-wavelength Sanwa OPM siblings Notes Specs from Sanwa OPM37LAN Japanese catalog listings. Long-wavelength SC meters are different Sanwa OPM models. Confirm FC adapter and 650-880 nm calibration wavelengths on the unit.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	OPM37LAN
Manufacturer	Sanwa Electric Instrument
Instrument Type	Optical Power Meter
Series	Sanwa OPM fiber power meters
Alias	OPM37LAN; OPM 37 LAN; OPM37 LAN
Display	4-digit digital
Ranges	automatic 8 range
Optical Sensor	Si photodiode, 5.8 x 5.8 mm
Power Range dBm	-60.00 dBm to +13.00 dBm
Power Range Watts	1.000 nW to 20.00 mW
Optical Input	direct to photodiode
Reference Wavelengths	650, 780, 800, 850, 880 nm
Accuracy	+/-5 percent at direct-reading wavelength, -20 dBm / 10 µW
Resolution dBm	0.01 dB in dBm/dB REL mode
Resolution Watts	0.01 percent in W/W REL mode
Measuring Cycle	3.33 times per second
Averaging	20-data sequential averaging
Relative Modes	dB REL andWREL
Offset	yes
Interface	RS-232C
Optional RS232 Cable: KB-RS-OPM Standard Connector: FC type (F01) adapter Optional SC Adapter: OPA-F04 Optional Simplex TOSLINK: OPA-F05 Optional Duplex TOSLINK: OPA-F07	
Specifications	

PARAMETER	VALUE
Sensor Extension	2 m cord
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Notes

Specs from Sanwa OPM37LAN Japanese catalog listings. Long-wavelength SC meters are different Sanwa OPM models. Confirm FC adapter and 650-880 nm calibration wavelengths on the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.