

JDSU

OLP-55 (2277/01)

The JDSU OLP-55 (2277/01) is a high-performance SMART Optical Power Meter designed for installing, testing, and maintaining singlemode and multimode optical networks. Offering industry-leading accuracy, it features a unique built-in auto-zeroing function for automatic dark current compensation. With the capability to store up to 1000 test results and support for up to 900 calibrated wavelengths, the OLP-55 provides a robust and reliable field-testing solution.

SPECIFICATIONS

General

Interfaces	USB port
Display	Illuminated graphical user interface (128 x 64 pixels)
Included Accessories	SNT-121A AC adapter, 4 × NiMH rechargeable batteries, USB cable, neck strap, belt bag, and PC software

Physical

Power Supply	4x AA batteries (alkaline or rechargeable NiMH) or optional SNT-121A AC adapter
Operating Temperature	-10 to +55 °C °C
Dimensions (W×H×D)	95 x 195 x 47 mm mm
Weight	0.5 kg kg

Optical Specifications

Detector Type	InGaAs
Wavelength Range	800 to 1700 nm
Calibrated Wavelengths	850 nm, 980 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, 1625 nm
Customizable Wavelengths	Up to 900 wavelengths (adjustable in 1 nm steps)
Power Measurement Range	-60 to +10 dBm
Max. Safe Input Power	+16 dBm
Intrinsic Uncertainty	±0.13 dB (±3%) under reference conditions
Linearity	±0.06 dB (-50 to +5 dBm)
Fiber Type Compatibility	Singlemode (9/125 μm) and multimode (50/125 μm, 62.5/125 μm)
Optical Connector Interface	Universal optical adapter system (including UPP adapters)

Measurement Modes & Functions

Auto-Zeroing Function	Built-in auto dark current compensation (no manual zeroing required)
Auto-Wavelength Detection (Auto-lambda)	Automatic wavelength detection and tracking with compatible JDSU sources
Multi-Wavelength Measurement Mode	Displays up to three test results simultaneously
Tone Detection / Modulation Frequency	270 Hz, 1 kHz, 2 kHz
Data Logging Capacity	Up to 1000 test results with automatic date/time stamp
Measurement Units	dB, dBm, W (nW, µW, mW)
Reference Level Setup	Relative power measurement (dB) with storage of reference level
Warm-up Time	None (instantaneous quick-start operation)

Display & User Interface

User Interface	SMARTStar graphical interface
Controls	One-handed operation keypad layout
Display Backlight	Yes, illuminated GUI display

Connectivity & Interfaces

PC Software Compatibility	OFS-355 Optical Fiber Assistant Software
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Power Supply & Management

Power Management	SMARTEnergy power supply management system
Battery Operating Time	>100 hours (with dry batteries)
Auto-Power Off / Sleep Mode	Yes, programmable automatic shutoff

Environmental Specifications

Storage Temperature Range	-40 to +70 °C
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Physical Characteristics

Ruggedization / Shock Protection	Robust, shock-proof, and splash-proof design
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Calibration & Compliance

Recommended Calibration Interval	3 years
Traceability Standards	Traceable to NIST/PTB standards

Environmental

Operating Humidity Range	15% to 95% RH (non-condensing)
Maximum Operating Altitude	2000 m

Compliance & Safety

Pollution Degree	2
Overvoltage Category	II
Electrical Safety Compliance	IEC 61010-1
EMC Compliance	EN 61326-1
Vibration Standard	IEC 60068-2-6
Shock Standard	IEC 60068-2-27

Wavelength

Custom Wavelength Step Size	1 nm
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Features

Real-Time Clock	Integrated, providing date and time stamping for logged data
Auto-Wavelength Source Compatibility	JDSU SMART optical light sources (such as OLS-55 and OLS-56)

Power Supply

External AC Adapter Input	100 to 240 V AC, 50/60 Hz
External DC Input Voltage	12 V DC
Supported Battery Types	4 × AA NiMH (rechargeable) or 4 × AA Alkaline (non-rechargeable)

Optical

Optical Adapter System	Interchangeable adapter system (UPP 2.5 mm, UPP 1.25 mm, FC, SC, ST, LC, DIN)
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TECHNOLOGY

Optical Power Meter

APPLICATIONS

Singlemode and multimode fiber network installation and maintenance

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.