

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase OLP-55

JDSU OLP-55 SmartClass Optical Power Meter The OLP-55 is a JDSU SmartClass handheld optical power meter for installing and maintaining single-mode and multimode networks. Auto-zeroing dark-current compensation, up to 900 calibrated wavelengths, auto-lambda, TWINtest/tripletest, and USB result storage are standard. Four detector options cover general-purpose germanium through ultra-high-power filtered InGaAs. Specs below call out BN 2277/01 (Ge) plus the InGaAs high-sensitivity, high-power, and ultra-high-power columns from the same OEM table. The OLP-55 is a JDSU SmartClass handheld optical power meter for installing and maintaining single-mode and multimode networks. Auto-zeroing dark-current compensation, up to 900 calibrated wavelengths, auto-lambda, TWINtest/tripletest, and USB result storage are standard. Four detector options cover general-purpose germanium through ultra-high-power filtered InGaAs. Specs below call out BN 2277/01 (Ge) plus the InGaAs high-sensitivity, high-power, and ultra-high-power columns from the same OEM table. Field power and loss test; FTTx-ready wavelength work; auto-lambda with JDSU sources; production or installation documentation of up to 1000 results.



MODEL

**JDS Uniphase
OLP-55**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OLP-55

LISTING

<https://aumictechlabs.com/products/olp-55-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase OLP-55 is a handheld optical power meter for field installation, testing, and maintenance of fiber optic networks. It delivers precise measurements across singlemode and

multimode systems using an InGaAs detector with auto-zeroing and dark current compensation. The instrument measures optical power from -60 dBm to +26 dBm across 800 nm to 1700 nm, with calibrated wavelengths at 850 nm, 1310 nm, 1550 nm, and 1625 nm. An auto-lambda function identifies wavelength automatically, eliminating manual setup errors and accelerating field testing. The OLP-55 supports simultaneous multi-wavelength measurements via TWINtest and TRIPLEtest modes, with an illuminated graphical display (128 × 64 dots) showing up to three results at once. Internal memory stores 1000 timestamped measurements; unlimited storage extends via USB memory sticks or host USB data storage. A reflection trap minimizes multiple reflections between adapter and photodiode for enhanced accuracy. The meter operates on two AA batteries (alkaline or rechargeable NiMH/NiCd) or via AC adapter, with automatic power-off after 20 minutes of inactivity. Universal Push-Pull adapter system accommodates 2.5 mm and 1.25 mm ferrules. The shock-proof, splash-proof design weighs approximately 500 g and measures 95 × 60 × 195 mm. USB connectivity enables remote operation, data transfer, and Excel-compatible report generation. Optional Visual Fault Locator (635 nm) is available. Available in general purpose, high sensitivity, and high power (+26 dBm) configurations.

Technical Specifications
Measurement Range: -60 dBm to +26 dBm
Detector: InGaAs diode
Wavelength Range: 800 nm to 1700 nm
Calibrated Wavelengths: 850 nm, 1310 nm, 1550 nm, 1625 nm
Maximum Wavelength Calibrations: Up to 900 calibrated wavelengths
Display: Illuminated graphical display, 128 × 64 dots
Data Storage: 1000 internal measurements with date/time stamp; USB expandable
Dimensions: 95 × 60 × 195 mm
Weight: Approximately 500 g

Key Features
Auto-zeroing eliminates manual calibration
Automatic dark current compensation
Reflection trap reduces adapter-to-photodiode reflections
Auto-lambda automatic wavelength detection
TWINtest and TRIPLEtest simultaneous multi-wavelength modes
Four power supply options: AA batteries, rechargeable cells, AC adapter, or USB
Auto power-off after 20 minutes inactivity (user-selectable)
Universal Push-Pull adapter system (2.5 mm and 1.25 mm ferrules)
USB client port for data transfer and Excel-compatible reports
Optional 635 nm Visual Fault Locator

Typical Applications
Broadband network installation and maintenance
PON (Passive Optical Network) deployment
Gigabit Ethernet system verification
Field fiber optic network testing
Compatibility & Integration
Singlemode and multimode fiber systems
USB data export and remote operation
Available in general purpose, high sensitivity, and high power configurations

Features & description

From manufacturer datasheet

Features

- Auto-zeroing (no manual zero) • Auto-lambda 850 to 1650 nm • TWINtest and triplettest multi-wavelength • Reflection trap adapter BN 2014/00.xx • Optional 635 nm VFL and host USB storage • Shock-proof, splash-proof SmartClass housing

OLP Characteristics / Specifications

PARAMETER	VALUE
Model	OLP-55
Manufacturer	JDSU (VIAVI)
Instrument Type	SmartClass optical power meter
Alias	OLP55; BN 2277/01 to 2277/04
Ge wavelength range	780 to 1650 nm in 1 nm increments (BN 2277/01)
InGaAs wavelength range	800 to 1700 nm in 1 nm increments (BN 2277/02/03/04)
Calibrated wavelengths Ge	870
Calibrated wavelengths InGaAs	900
Ge photodiode	germanium general purpose BN 2277/01
HS photodiode	InGaAs high sensitivity BN 2277/02
HP photodiode	filtered InGaAs high power 26 dBm BN 2277/03
UHP photodiode	filtered InGaAs ultra high power 30 dBm BN 2277/04
Ge fiber type	9/125 to 100/140 um
InGaAs fiber type	9/125 to 50/125 um
Ge display range	-70 to +20 dBm
HS display range	-80 to +15 dBm
HP display range	-60 to +26 dBm
UHP display range	-60 to +30 dBm
Ge max level	+20 dBm
HS max level	+15 dBm
HP max level	+26 dBm
UHP max level	+30 dBm
Intrinsic uncertainty	±0.13 dB (±3%) all versions
Ge overall 850 nm	±0.25 dB ±0.8 nW
Ge overall 1310 nm	±0.2 dB ±0.2 nW

PARAMETER	VALUE
Ge overall 1550 nm	±0.4 dB ±0.2 nW
HS overall 1310 nm	±0.2 dB ±0.02 nW
HS overall 1550 nm	±0.2 dB ±0.02 nW
Modulation detection	270 Hz, 1 kHz, 2 kHz
Auto lambda	850 nm to 1650 nm
Data memory	1000 results
Display	128 × 64 dots, up to three readings
Display resolution	0.01 dB / 0.001 uW
Result units	dBm, dB, mW, uW
Connectors 2.5 mm	FC, ST, SC, DIN, E2000
Connectors 1.25 mm	LC, MU
Battery	four AA 1.5 V or NiMH 1.2 V
Battery life	greater than 100 h dry cells
Auto off	about 20 min (can be disabled)
Charge time	2 hours integrated
EMC	IEC 61326 CE
Calibration interval	3 years
Operating temperature	-10 C to +55 C
Storage temperature	-40 C to +70 C
Dimensions	approximately 95 × 60 × 195 mm
Weight	approximately 500 g
Reference condition	-20 dBm CW, 1310 nm ±1 nm, 23 C ±3 K, up to 75% RH, 9 to 50 um DIN fiber
Wavelength range	780 to 1650 nm in 1 nm increments (BN 2277/01)
Fiber type	9/125 to 100/140 um

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to +70 C
Operating temperature	10 C to +55 C
Operating Temperature	10 C to +55 C
Dimensions	approximately 95 × 60 × 195 mm
Weight	approximately 500 g
Reference condition	-20 dBm CW, 1310 nm ±1 nm, 23 C ±3 K, up to 75% RH, 9 to 50 um DIN fiber Notes Specs from JDSU OLP-55 Smart Optical Power Meter datasheet (SMART-OLP55.DS.FOP.TM.AE). Confirm BN 2277/01 Ge versus /02 high-sensitivity InGaAs versus /03 26 dBm versus /04 30 dBm on the faceplate. Do not apply OLP-57 wavelength-selective PON through-mode specs to OLP-55.

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	
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Ge overall 850 nm	±0.25 dB ±0.8 nW
Ge overall 1310 nm	±0.2 dB ±0.2 nW
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Notes

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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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.