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Data Sheet
August 13, 2026

JDS UNIPHASE

JDS Uniphase OLP-87

VIAVI / JDSU OLP-87 SmartClass Fiber PON Power Meter The OLP-87 isawavelength-selective FTTx/PON power meter for qualifying, activating, and troubleshooting B-PON, E-PON, G-PON, and next-generation 10G PON (XG-PON / 10G-EPON). Through-mode measures downstream 1490/1550/1578 nm and burst-mode upstream 1270/1310 nm on live fiber. Optional broadband InGaAs UPP meter, P5000i inspection, USB/Ethernet remote, and up to 10000 stored results are provided. OLP-87P adds an integrated patch-cord microscope; this file is the stand-alone OLP-87. The OLP-87 isawavelength-selective FTTx/PON power meter for qualifying, activating, and troubleshooting B-PON, E-PON, G-PON, and next-generation 10G PON (XG-PON / 10G-EPON). Through-mode measures downstream 1490/1550/1578 nm and burst-mode upstream 1270/1310 nm on live fiber. Optional broadband InGaAs UPP meter, P5000i inspection, USB/Ethernet remote, and up to 10000 stored results are provided. OLP-87P adds an integrated patch-cord microscope; this file is the stand-alone OLP-87. FTTx/PON activation and maintenance; simultaneous voice/data/RF video level checks; burst-mode ONT upstream; optional broadband power and fiber inspection.

MODEL **JDS Uniphase OLP-87**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **OLP-87**	LISTING **https://aumictechlabs.com/products/olp-87-2/**

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NAICS 423690 · 811210 · 541380

This unit

The OLP-87 (VIAVI) is a handheld optical power meter for field activation, troubleshooting, and maintenance of FTTx/PON networks. It delivers wavelength-selective power measurement across

B-PON, E-PON, G-PON, XG(S)-PON, 10G-EPON, and NG-PON2 standards in a single portable unit. Through-mode capability enables simultaneous measurement of voice, data, and RF video signals without breaking the circuit. Technical Specifications Optical Performance Downstream wavelengths: 1490 nm, 1550 nm, 1577/1578 nm Upstream wavelengths (burst mode): 1270 nm, 1310 nm, 1535 nm NG-PON2 wavelength-selective channels supported per model configuration Optical return loss: >60 dB Pass-through insertion loss: 1000 Smart Reporter™ PC software for certification report generation Hands-free carrier included Weather-proof, rugged design Typical Applications PON network activation and field testing across all major standards Real-time signal monitoring during troubleshooting and maintenance Lab and field measurement environments Fiber end-face quality verification (with optional inspection module) Compatibility & Integration Supports B-PON, E-PON, G-PON, XG(S)-PON, 10G-EPON, and NG-PON2 (TWDM) networks. Measurement data downloads via USB or Ethernet for post-analysis and documentation.

Features & description

From manufacturer datasheet

Features

• Through-mode selective PON meter • Burst-mode 1270 nm and 1310 nm upstream • Optional separate broadband UPP port (±0.2 dB class) • P5000i digital inspection (option) • 3.5 inch color touch screen • Versions: 1310/1490 nm, 1310/1490/1550 nm, and XG-PON 1270/1310/1490/1550/1578 nm

OLP Characteristics / Specifications

PARAMETER	VALUE
Model	OLP-87
Manufacturer	VIAVI Solutions (formerly JDSU)
Instrument Type	SmartClass Fiber PON power meter
Alias	OLP87; 2305/xx stand-alone units
Display	3.5 inch color LCD touch screen
Display resolution	0.01 dBm / 0.001 uW
Measurement units	dB, dBm, W
ORL	greater than 60 dB (APC versions; notes 4 and 8)
Upstream 1270 burst range	-40 to +13 dBm (burst -35 to +13 dBm)
Upstream 1270 max input	+17 dBm
Upstream 1270 passband	1260 to 1280 nm
Upstream 1310 burst range	-40 to +13 dBm (burst -35 to +13 dBm)
Upstream 1310 max input	+17 dBm
Downstream 1490 range	-50 to +13 dBm
Downstream 1490 max input	+15 dBm
Downstream 1490 passband	1480 to 1500 nm
Downstream 1578 range	-50 to +13 dBm (XG-PON version)
Downstream 1578 max input	+15 dBm
Downstream 1578 passband	1573 to 1583 nm
RF video 1550 range	-50 to +26 dBm
RF video 1550 max input	+27 dBm
RF video 1550 passband	1535 to 1565 nm
Pass through insertion loss	less than 1.5 dB at 23 C ±3 C, calibrated FTTx wavelengths
Power uncertainty FTTx	±0.5 dB at 23 C ±3 C, at -7 dBm
Broadband option range	-50 to +13 dBm

PARAMETER	VALUE
Broadband option max	+15 dBm
Broadband option uncertainty	±0.2 dB (±5%) at 23 C ±3 C, -20 dBm (separate UPP port)
Broadband calibrated wavelengths	1310/1490/1550/1625 nm
Broadband wavelength setting	1260 to 1625 nm in 1 nm steps
Tone detection	270 Hz, 1 kHz, 2 kHz
Data memory	10000 measurement results
Electrical interfaces	2 x USB host, 1 x micro USB, Ethernet
Power source	AC adaptor, 8 x AA alkaline, or optional Li-ion pack
Optical connectors	SC switchable (FC, ST, LC available)
Recalibration interval	3 years
Dimensions OLP	208 × 112 × 64 mm
Weight OLP	750 g
Operating temperature	-10 C to +55 C
Storage temperature	-20 C to +70 C
Inspection live image	320 × 240 × 8 bit grey, 10 fps
Threshold sets	greater than 1000 configurable

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 C to +70 C
Operating temperature	10 C to +55 C
Operating Temperature	10 C to +55 C
Inspection live image	320 × 240 × 8 bit grey, 10 fps
Threshold sets	greater than 1000 configurable Notes Specs from VIAVI OLP-87/87P SmartClass Fiber datasheet. Confirm wavelength version (1310/1490, 1310/1490/1550, or XG-PON five-wavelength) and SC-PC versus SC-APC on the unit. OLP-87P is the integrated patch-cord microscope variant (208 × 153 × 64 mm / 850 g).

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	OLP-87
Manufacturer	VIAVI Solutions (formerly JDSU)
Instrument Type	SmartClass Fiber PON power meter
Alias	OLP87; 2305/xx stand-alone units
Display	3.5 inch color LCD touch screen
Display resolution	0.01 dBm / 0.001 uW
Measurement units	dB, dBm, W
ORL	greater than 60 dB (APC versions; notes 4 and 8)
Upstream 1270 burst range	-40 to +13 dBm (burst -35 to +13 dBm)
Upstream 1270 max input	+17 dBm
Upstream 1270 passband	1260 to 1280 nm
Upstream 1310 burst range	-40 to +13 dBm (burst -35 to +13 dBm)
Upstream 1310 max input	+17 dBm
Downstream 1490 range	-50 to +13 dBm
Downstream 1490 max input	+15 dBm
Downstream 1490 passband	1480 to 1500 nm
Downstream 1578 range	-50 to +13 dBm (XG-PON version)
Downstream 1578 max input	+15 dBm
Downstream 1578 passband	1573 to 1583 nm
RF video 1550 range	-50 to +26 dBm
RF video 1550 max input	+27 dBm
RF video 1550 passband	1535 to 1565 nm
Pass through insertion loss	less than 1.5 dB at 23 C ±3 C, calibrated FTTx wavelengths
Power uncertainty FTTx	±0.5 dB at 23 C ±3 C, at -7 dBm
Broadband option range	-50 to +13 dBm
Broadband option max	+15 dBm

PARAMETER	VALUE
Broadband option uncertainty	±0.2 dB (±5%) at 23 C ±3 C, -20 dBm (separate UPP port)
Broadband calibrated wavelengths	1310/1490/1550/1625 nm
Broadband wavelength setting	1260 to 1625 nm in 1 nm steps
Tone detection	270 Hz, 1 kHz, 2 kHz
Data memory	10000 measurement results
Electrical interfaces	2 x USB host, 1 x micro USB, Ethernet
Power source	AC adaptor, 8 x AA alkaline, or optional Li-ion pack
Optical connectors	SC switchable (FC, ST, LC available)
Recalibration interval	3 years
Dimensions OLP 87	208 x 112 x 64 mm
Weight OLP 87	750 g
Operating temperature	-10 C to +55 C
Storage temperature	-20 C to +70 C
Inspection live image	320 x 240 x 8 bit grey, 10 fps
Threshold sets	greater than 1000 configurable

Notes
Specs from VIAVI OLP-87/87P SmartClass Fiber datasheet. Confirm wavelength version (1310/1490, 1310/1490/1550, or XG-PON five-wavelength) and SC-PC versus SC-APC on the unit. OLP-87P is the integrated patch-cord microscope variant (208 x 153 x 64 mm / 850 g).

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

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