

JDSU OLP-57 Specs Provided by www.AAATesters.com

OLP-57 SMART Optical Power Meter

FTTx/PON Selective Optical Power Meter



Key features

- The market's first BPON/EPON/GPON optical power meter
- Selective FTTX power meter with through mode, measuring at all three wavelengths 1490 nm, 1550 nm and 1310 nm in an FTTX/PON system simultaneously.
- Easy pass/fail analysis via multiple-user adjustable thresholds per wavelength. Ten pre-defined, user-adjustable sets are provided.
- Illuminated graphical user interface (GUI) displays all necessary parameters and up to three test results simultaneously.
- Universal adapter system (BN 2150/00.xx) for 2.5 mm and 1.25 mm connectors available.
- 4 AA size batteries for long operating time.
- Data transfer via USB interface.
- Burst mode function for 1310 nm upstream.

JDSU SMART optical handhelds go beyond the basics

With more than 70,000 optical handhelds already in use, JDSU continues the success story with the Smart optical handhelds . The Smart class help your network move to the next level of performance. JDSU's Smart optical handhelds encompass a new, intelligent, and next level product line for testing all optical signals and systems, including broadband, PONs, and Gigabit Ethernet.

All of JDSU's SMART optical handhelds provide:

- An extended number of calibration wavelengths for the highest performance range in the industry.
- The SMARTStar user interface for fast, easy, and straightforward operation.
- The SMARTEnergy power supply management system.
- The SMARTBag for safe and hands-free operation and transport.
- A USB port for remote operation as well as easy Microsoft Excel™-based report generation and analysis.
- Traceable measurements to international standards for confidence in accuracy.
- A robust, shock-proof, and splash-proof design for field operation.
- Quick start operation, requiring no warm-up time thus reducing test time.

The JDSU OLP-57 SMART Selective Optical Power Meter for FTTX/PON is a high-performance power meter for testing, installing, and maintaining FTTX/PON systems. Its through-mode allows simultaneous measurement at all three wavelengths on the fiber, 1490 nm and 1550 nm downstream and 1310 nm upstream. The 1310 nm channel provides correct power measurements of burst type upstream PON signals.



OCK-10 Optical Connector Cleaning Kit (accessory)



OVF-1 Visual Fault Locator (accessory)



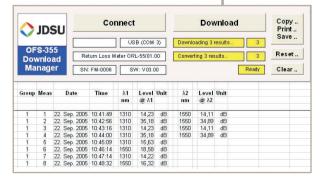
Optical adapters (BN 2150)



Worldwide compatible AC adapter (SNT-121A)



USB connection



OFS-355 Optical Fiber Assistant Software –

Free PC documentation software



FTTx wavelength selective characteristics⁽¹⁾

Measurement of 1310 nm (upstream)

 Pass band
 1260 to 1360 nm

 Isolation of 1490/1550 nm bands
 >50 dB

 Max. permitted input level
 +17 dBm

 Measurement range
 +10 to -35 dBm

Measurement of 1490 nm (downstream)

 Pass band
 1480 to 1500 nm

 Isolation of 1550 nm band
 >50 dB

 Isolation of 1310 nm band
 >50 dB

 Max. permitted input level
 +15 dBm

 Measurement range
 +10 to -50 dBm

Measurement of 1550 nm (downstream)

Pass band 1530 to 1570 nm Isolation of 1490 nm band >50 dB Isolation of 1310 nm band >50 dB Max. permitted input level +26 dBm Measurement range +26 to -50 dBm

Measurement accuracy

 $\begin{array}{ll} \text{Intrinsic uncertainty}^{(2,\,3,\,4)} & \pm \, 0.5 \; \text{dB} \\ \text{PDL} & <\pm \, 0.25 \; \text{dB} \\ \text{Linearity}^{(2,\,5)} & \pm \, 0.06 \; \text{dB} \\ \text{Through path insertion loss}^{(2,\,4)} & <1.5 \; \text{dB} \\ \end{array}$

Memory

Data memory 1000 measurement results
Data readout/
remote control via USB interface

General data

Display Illuminated graphical display, resolution 128×64 dots Results displayed in dBm, dB, mW, μ W pass/fail Resolution⁽⁶⁾ 0.01 dB/0.001 μ W Backlight function

Optical interface

Fiber type 9/125 µm
Optical connector interchangeable adapter
from BN 2150/00.xx range
2.5-mm plugs: FC, ST, SC, DIN
1.25-mm plugs: LC, MU adapter

Power supply

Dry batteries 4 × Mignon (AA) 1.5 V or NiMH rechargeable cells Mignon (AA) 1.2 V

Operating time from dry batteries

Broadband mode >60 h⁽⁷⁾

Burst

>35 h

Batteries/NiCD/NiMH power saving: The instrument switches off automatically after ~20 min (function can be disabled) AC line operation via separate AC adapter Integrated fast battery charging function (2 h)

External 12 V DC operating via an AC adapter

Electromagnetic compatibility

Corresponds to EN 50081-1 and EN 50082-1 (CE conformance)

Calibration

Suggested calibration interval 3 years

Ambient temperature

Normal range of use -10°C to $+55^{\circ}\text{C}$ Storage and transport -40°C to $+70^{\circ}\text{C}$

Dimensions and weight

 $\begin{array}{ll} \text{W}\times\text{h}\times\text{d approx.} & 95\times60\times195\text{ mm}\\ & (3.74\times2.36\times7.68\text{ in})\\ \text{Weight approx.} & \sim500\text{ g}\\ & (1.1\text{ lb}) \end{array}$

- (1) Isolation is defined as rejection of neighbor signals in relation to the measurement signal.
- (2) Under reference conditions at 23°C \pm 3°, wavelength 1310/1490/1550 nm \pm 2 nm, CW signal.
- (3) At -7 dBm, including uncertainty of input connector
- (4) With DIN connector
- (5) +15 to -30 dBm at 1490 nm,1550 nm
 - +10 to -20 dBm at 1310 nm upstream
 - +10 to -40 dBm at broadband mode (only versions 2289/04 and 2289/24)
- (6) For power > -40 dBm
- (7) Only for versions 2289/04 and 2289/24



Ordering Information

Ordering number	Instrument		
BN 2289/03	JDSU OLP-57 Through mode: 1310 nm, 1490 nm, 1550 nm, /PC interface		
BN 2289/04	JDSU OLP-57 Through mode: 1310 nm, 1490 nm, /PC interface, with broadband power meter mode		
BN 2289/23	JDSU OLP-57 Through mode: 1310 nm, 1490 nm, 1550 nm, /APC interface		
BN 2289/24	JDSU OLP-57 Through mode: 1310 nm, 1490 nm, /APC interface, with broadband power meter mode		

OFS-355 Optical Fiber Assistant Software

Free PC documentation software (available from http://www.jdsu.com/test_and_measurement/customer_care/software_updates/index.html)

Included with the OLP-57

Two interchangeable adapters from BN 2150/00.xx range
Four dry batteries Mignon/AA, 1.5 V
Operating manual
MT-15 Belt bag

Accessories

Ordering number	Accessories			
BN 2150/00.32	Universal Optical Adapter ST			
BN 2150/00.50	Universal Optical Adapter DIN 47256			
BN 2150/00.51	Universal Optical Adapter FC-PC, FC-APC			
BN 2150/00.58	Universal Optical Adapter SC-PC, SC-APC			
BN 2150/00.59	Universal Optical Adapter LC			
BN 2229/90.21	OCK-10 Optical Connector Cleaning Kit			
BN 2229/90.07	Optical cleaning tape			
BN 2229/90.08	Spare tape for optical cleaning tape			
BN 2237/90.02	NiMH cell Mignon/AA, 1.2 V (4 required per instrument)			
BN 2277/90.01	SNT-121A Worldwide compatible AC adapter			
K804	USB connection cable			
BN 2277/90.02	MT-1S belt bag for one instrument			
BN 2126/03	MT-2S soft bag for two instruments			
BN 2126/04	MT-3S soft bag for three instruments			
BN 2093/31	MK-3S hard case for three instruments			
BN 2289/90.01	Calibration Report			

Detailed information regarding test adapters, cables, and fiber optic sleeves can be found in a separate data sheet entitled "JDSU Fiber Optic Test Adapters and Cables".

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