



OLP-5, OLP-6 and OLP-8 Optical Power Meters

Pocket-sized optical power meters



Key features

- Pocket class: Rugged, compact and lightweight
- Easy-to-use, straight forward operation
- Reliable basic functionality for most economical testing
- Three year calibration period
- Dedicated for all single mode and multi-mode applications like LAN, Telecom, CATV, and DWDM testing
- Universal push pull interface (2.5 or 1.25 mm)
- Twintest and Auto-λ
- Compact design, versatile use
- Standard AA batteries or NiMH/NiCd cells

Basic, reliable, economic solution

The JDSU OLP-5, OLP-6 and OLP-8 are handy, pocket-sized optical power meters for quick, easy and convenient field measurement of optical power and attenuation in fiber networks. They can be used on their own for simple output tests, or with a light source for insertion loss measurements. The full functionality of the pocket-sized OLP range is realized when used with an JDSU optical light source (OLS).

Accurate measurement, simple operation

Three-button operation and a bright, clear display make the pocket-sized OLPs very easy-to-use. The reference level for the attenuation measurement is made to IEC-874-1 (method 6) and can be saved with a single keystroke.

Used with an JDSU OLS light source, the possibility of measurement errors is eliminated because the power meter automatically detects the wavelength being transmitted. As a result, dual wavelength measurements at 850 and 1300 nm or 1310 and 1550 nm can be made quickly and easily, using the saved reference levels.

Automatic identification of individual fibers

Pocket-sized OLPs can be used with an JDSU light source to detect the modulation frequency of the light coupled into the fiber, for identification purposes.

Different power ranges for different applications

There are three OLPs available with different power ranges. The **OLP-5** is dedicated to LAN/multimode or single mode applications. The **OLP-6** covers mostly the standard telecom applications, while the **OLP-8** is dedicated to higher power applications like CATV networks, DWDM systems and EDFA testing.

Rugged field instrumentation

The instruments, which all take standard AA (Mignon) batteries or rechargeable batteries, are supplied in a robust case with a handy belt bag. The selectable on/off power-down shuts off auto-matically after 20 minutes. Whenever the on/off key is pressed the remaining battery capacity is displayed. Operating time is further maximized by the use of low-power components.

Universal push pull interface

With the UPP (2.5 or 1.25 mm) you can connect every optical connector without changing any adapter.



2 AA batteries or NiCd/NiMH cells



OMK-5/6/7: available as test kits together with a power meter and accessories



Quick charger for NiMH or NiCd cells (accessory)



OVF-1 Visual Fault Locator (accessory)

Specifications

OLP-5 BN 2256/01

Display range	-60 to +5 dBm
Max. permitted input le	evel +10 dBm
4	
Accuracy	
Intrinsic uncertainty ⁽¹⁾	± 0.20 dB (± 5%)
Linearity ⁽²⁾ \pm 0.	.06 dB (-50 to +5 dBm)
Wavelength range	780 to 1600 nm
Standard wavelength se	ettings 820, 850,
	1300, 1550 nm
Wavelength and modul	ation detection
together	
with OLS-5, OLS-6, OLS-	-55/56,
OLT-55 270 H	Hz, 330 Hz, 1 kHz, 2 kHz
1300, 1310, 1550 nm	-50 to +5 dBm
850 nm	-45 to +5 dBm
Connectable	
fiber types	9/125 to 100/140 μm

OLP-6 BN 2256/02

Display range	–65 to +10 dBm
Max. permitted input le	vel +10 dBm
Accuracy	
Intrinsic uncertainty ⁽¹⁾	± 0.20 dB (± 5%)
Linearity ⁽²⁾ \pm 0.	06 dB (-50 to +5 dBm)
Wavelength range	780 to 1650 nm
Standard wavelength se	ettings 850,
1300), 1310, 1490, 1550 nm
Wavelength and modul	ation detection
together	
logeniei	
with OLS-5, OLS-6, OLS-	55/56,
with OLS-5, OLS-6, OLS-	55/56, z, 330 Hz, 1 kHz, 2 kHz
with OLS-5, OLS-6, OLS-	z, 330 Hz, 1 kHz, 2 kHz
with OLS-5, OLS-6, OLS- OLT-55 270 H	z, 330 Hz, 1 kHz, 2 kHz
with OLS-5, OLS-6, OLS- OLT-55 270 H 1300, 1310, 1490, 1550	z, 330 Hz, 1 kHz, 2 kHz nm -50 to +10 dBm

OLP-8 BN 2256/03

Display range	-50 to +23 dBm
Max. permitted inpu	it level +23 dBm
Accuracy ⁽¹⁾	
Intrinsic uncertainty	⁽³⁾ ± 0.20 dB (± 5%)
Linearity ⁽²⁾ ±	0.06 dB (-35 to +20 dBm)
Wavelength range	780 to 1650 nm
Standard wavelengt	h settings 980, 1310,
	1480, 1550 nm
Wavelength and mo	dulation detection
together with OLS-5	, OLS-6, OLS-55/56,
OLT-55 22	70 Hz, 330 Hz, 1 kHz, 2 kHz
1310, 1550 nm	-35 to +23 dBm
980 nm	-30 to +23 dBm
Connectable	
fiber types	9/125 μm to 10/125 μm

Under reference conditions: -20 dBm (CW), 1310 nm, ±2 nm, 23°C ±3 K, 40 up to 75% relative humidity.
 Temperature range 23°C ± 3 K, 9/125 µm fiber + PC con-

- competitive range 25 G ± 5 K, 57 125 µil liber + PC connector, 40 up to 75% relative humidity.
 (3) While using APC connector, additional uncertainty of -0.1 dB may occur.

Optical interface

Standard:	Universal Push	n-Pull (UPP)
	2.5 m	nm adapter
	Matches DIN,	, ST, FC, SC,
E20	00 flat or angled	face plugs
Optional:	UPP 1.25 mm	(F3000, LC)
Photo diode type	G	Germanium
Display	L	.CD, 4-digit
Result display in		dBm, dB
Resolution		0.01 dB,
below –60 dBm		0.1 dB
Modulation detect	ion 270	Hz, 330 Hz,
	1	kHz, 2 kHz
Wavelength detect	tion "on" (Auto-λ)	"AU"
Permanent mode		"PERM"
Battery charge stat	e in %	
when switching on	/off	

Reference level

Reference level stored for eac	h wavelength
Operating time	
from dry batteries	typical 130 h

Power supply

Dry batteries	2 × Mignon (AA) 1.5 V
or NiCd/NiMH cells	2 × Mignon (AA) 1.2 V
Discharge protection	
for batteries/NiCd cells	Automatic
	power down after
	approx. 20 minutes
to c	conserve battery power
(fu	nction can be disabled)

Electromagnetic compatibility

Corresponds to EN !	50081-1 and	EN 500082-1
(CE conformance)		
Recommended calil	bration interv	al 3 years
Ambient temperatu	ire	
Nominal range use	-1	0 °C to +50 °C
Storage and transpo	ort —4	0 °C to +70 °C
Dimensions		
$(w \times h \times d)$	approx. 73 ×	$28 \times 140 \text{ mm}$
Weight		approx. 180 g



Ordering information

BN 2256/01	OLP-5 $(-60\ to\ +5\ dBm)$ Included with the OLP-5 are two dry batteries Mignon AA 1.5 V, operating manual; belt bag
BN 2256/02	OLP-6 $(-65\ to\ +10\ dBm)$ OLP-6 comes complete with two dry batteries Mignon AA 1.5 V, operating manual, belt bag
BN 2256/03	JDSU OLP-8 (-50 to +23 dBm) OLP-8 comes complete with two dry batteries Mignon AA 1.5 V, operat- ing manual, belt bag
Accessories	
BN 2229/90.07	Optical cleaning tape
BN 2229/90.08	Spare tape for optical cleaning tape
BN 2256/90.05	Cleaning pins
BN 2229/90.01	Dry batteries, Mignon (AA) type (two required per instrument)
BN 2229/90.02	NiCd cells, Mignon (AA) type (two required per instrument)
BN 2237/90.02	NiMH cells
BN 2229/90.03	NiCd cells charger (for external charging) 230 V, European AC line plug
BN 2229/90.09	110 V, US AC line plug
BN 2229/90.19	230 V, UK AC line plug
BN 2256/90.01	Belt pouch, per instrument
BN 2256/90.03	LC-UPP adapter
BN 2126/90.01	Transport case MK-5 (space for two instruments, two cables, OVF-1)
BN 2229/90.21	OCK-10 Optical connector cleaning kit
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 2256/90.02	Calibration report for OLP-5/OLP-6/OLP-8

Detailed information about test adapters, cables and fiber-optic couplers can be found in separate data sheet: "JDSU fiber-optic test adapters and cables".

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