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

Pocket-sized optical power meters

<table>
<thead>
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<th>Key features</th>
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<tr>
<td>• Pocket class: Rugged, compact and lightweight</td>
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<tr>
<td>• Easy-to-use, straightforward operation</td>
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<td>• Reliable basic functionality for most economical testing</td>
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<td>• Three year calibration period</td>
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<td>• Dedicated for all single mode and multi-mode applications like LAN, Telecom, CATV, and DWDM testing</td>
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<td>• Universal push pull interface (2.5 or 1.25 mm)</td>
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<td>• Twintest and Auto-λ</td>
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<tr>
<td>• Compact design, versatile use</td>
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<tr>
<td>• Standard AA batteries or NiMH/NiCd cells</td>
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**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 automatically 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.
OLP-5/6/8 Pocket-Sized Optical Power Meters

- Quick charger for NiMH or NiCd cells (accessory)
- OVF-1 Visual Fault Locator (accessory)
- OMK-5/6/7: available as test kits together with a power meter and accessories

- 1.25 mm UPP or 2.5 mm UPP port for all optical connectors
- Dust and shock protection
- Clear display for selected wavelengths and type of modulation
- 3-button straight-forward operation
- 2 AA batteries or NiCd/NiMH cells

Clear display for selected wavelengths and type of modulation

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 level**: +10 dBm

**Accuracy**
- **Intrinsic uncertainty**: ± 0.20 dB (± 5%)
- **Linearity**: ± 0.06 dB (−50 to +5 dBm)
- **Wavelength range**: 780 to 1600 nm
- **Standard wavelength settings**: 820, 850, 1300, 1550 nm

Wavelength and modulation detection together with OLS-5, OLS-6, OLS-55/56, OLT-55

- 270 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-5 BN 2256/02
- **Display range**: −65 to +10 dBm
- **Max. permitted input level**: +10 dBm

**Accuracy**
- **Intrinsic uncertainty**: ± 0.20 dB (± 5%)
- **Linearity**: ± 0.06 dB (−50 to +3 dBm)
- **Wavelength range**: 780 to 1650 nm
- **Standard wavelength settings**: 850, 1300, 1310, 1490, 1550 nm

Wavelength and modulation detection together with OLS-5, OLS-6, OLS-55/56, OLT-55

- 270 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

### OLP-8 BN 2256/03
- **Display range**: −50 to +23 dBm
- **Max. permitted input level**: +23 dBm

**Accuracy**
- **Intrinsic uncertainty**: ± 0.20 dB (± 5%)
- **Linearity**: ± 0.06 dB (−35 to +20 dBm)
- **Wavelength range**: 780 to 1650 nm
- **Standard wavelength settings**: 980, 1310, 1480, 1550 nm

Wavelength and modulation detection together with OLS-5, OLS-6, OLS-55/56, OLT-55

- 270 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

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(1) Under reference conditions: −20 dBm (CW), 1310 nm, ± 2 nm, 23°C ± 3 K, 40 up to 75% relative humidity.

(2) Temperature range: 23°C ± 3 K, 9/125 µm fiber + FC 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-Pull (UPP)
- **2.5 mm adapter**: DIN, ST, FC, SC, E2000 flat or angled face plugs
- **Photo diode type**: Germanium
- **Display**: LCD, 4-digit
- **Resolution**: 0.01 dB
- **Temperature range**: 23°C ± 3 K, 9/125 µm fiber + PC connector, 40 up to 75% relative humidity

### Power supply
- **Dry batteries**: 2 × Mignon (AA) 1.5 V
- **NiCd/NiMH cells**: 2 × Mignon (AA) 1.2 V
- **Discharge protection for batteries/NiCd cells**: Automatic power down after approx. 20 minutes to conserve battery power (function can be disabled)

### Electromagnetic compatibility
- **Recommended calibration interval**: 3 years
- **Recommended ambient temperature**: −10 °C to +50 °C
- **Recommended storage and transport**: −40 °C to +70 °C
- **Dimensions**: (w × h × d) approx. 73 × 28 × 140 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, operating 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.”