VIAVI

OLP-34/35/38

SmartPocket™ Optical Power Meters

Viavi Solutions® OLP-3x optical power meters quickly, easily, and conveniently measure power levels and loss in fiber networks.

Pocket-Sized Power Meters for All Kinds of Applications

Easy-to-use for technicians at any skill level, SmartPocket optical power meters complement Viavi optical light sources for insertion loss and continuity testing in both multimode and single-mode networks. They offer a dedicated and cost-optimized solution for testing and troubleshooting fiber in the field with:

- Intuitive, one-button operation

- Automatic wavelength recognition

- A large, sharp display that simultaneously shows relevant results and settings

The small and rugged OLP-3x also includes unprecedented data storage capacity and downloads results to a PC with a micro USB port.

- The OLP-34 is optimized for LAN/WAN access and enterprise networks and multimode or single-mode applications

- The OLP-35 is optimized for standard telecommunication network applications

- The OLP-38 is a higher-power (+26 dBm) version for CATV (with analog RF transmission) or amplified DWDM systems applications

Key Benefits

- Cost-effective, rugged high-performance solution

- 3-year recalibration period

- 1 nm incremental universal wavelength settings

- Universal optical interface supports all 2.5 mm with an option to support 1.25 mm connectors

- Auto wavelength detection and TwinTest mode

- Internal data storage and PC download capability

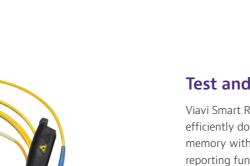- Quick start operation eliminates warm-up

Applications

- Measuring optical power levels and link insertion loss

- Enterprise LAN networks with 850/1300 nm multimode wavelengths capability

- Test access and metro (LAN/WAN) networks in multimode and single-mode

- Standard and high-power level tests for use in telecom, CATV, and military applications

Data Sheet

A Small Tool with Big Capabilities

Large, sharp screen displays:

- Battery level status
- Power mode (PERM, ECON)
- Measurement results in dBm/W/dB
- Wavelength setting
- Auto wavelength detection
- Tone detection

Straightforward
4-button operation

Rugged, shock resistant,
and splash-proof design

3-way power

- AA dry
- AA rechargeable
- AC operation

Test and Report Field Measurements

Viavi Smart Reporter reporting software lets users quickly and efficiently download test results data from the power meter's memory with just a few clicks. After it's downloaded, the software reporting functions let users generate and customize professional

SmartPocket OMK-3x optical test kits include an OLS-3x optical light source, an OLP-3x optical power meter, and accessories

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Report date: Tuesday, 7. June 2016

OLP-34/35/38 Report - my Report 01

Technician Information

Company Name: Viavi
Technician Name: Mustermann
Adress: Arbachtalstr 5
Postal Code: 72800
City: Eningen
Country: Germany

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Measurement results

Fiber ID	λ [nm]	Power [dBm]	Power [µWatt]	Power [dB]	Reference [dBm]	Mod.Freq. [Hz]
5	1310			-4.57	-3.26	
7	1490			-4.19	-6.07	
8	1310			-6.83	-3.26	270
9	1310			-4.10	-3.26	1000
10	1550			-4.13	-3.46	1000
11	1550	-3.98				
12	1550	-3.98				
13	1310	-4.33				
14	1310		369.30			
15	1550		400.90			

Technical Specifications

	OLP-34	OLP-35	OLP-38
Detector type	InGaAs	InGaAs	Filtered InGaAs
Optical interface/connectors	Universal 2.5 mm/1.25 mm[1]	Universal 2.5 mm/1.25 mm[1]	Universal 2.5 mm/1.25 mm[1]
Wavelength range	780 to 1600 nm	780 to 1650 nm	780 to 1650 nm
Wavelength settings	780 to 1600 nm, step size 1 nm	780 to 1650 nm, step size 1 nm	780 to 1650 nm, step size 1 nm
Programmable wavelengths	5 presets (customized)	5 presets (customized)	5 presets (customized)
Calibrated wavelengths	850, 980, 1310, 1490, 1550 nm	850, 980, 1310, 1490, 1550, 1625 nm	850, 980, 1310, 1490, 1550, 1625 nm
Power range	−60 to +5 dBm	−65 to +10 dBm	−50 to +26 dBm
Display range	−60 to +10 dBm	−65 to +13 dBm	−50 to +26 dBm
Max. input power	+13 dBm	+16 dBm	+27 dBm
Measurement units	dB/dBm/W	dB/dBm/W	dB/dBm/W
Intrinsic uncertainty[2]	±0.2 dB (±5%)	±0.2 dB (±5%)	±0.2 dB (±5%)
Linearity[3]	±0.06 dB (−50 to +5 dBm)	±0.06 dB (−50 to +5 dBm)	±0.06 dB (−32 to +20 dBm)
Tone detection	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz
Auto λ mode[4]	Yes	Yes	Yes
Multi λ mode[4]	TwinTest/serial TripleTest	TwinTest/serial TripleTest	TwinTest/serial TripleTest

Notes:

1. Optional 1.25 mm UPP accessory adapter is available.

2. Under these reference conditions: -20 dBm (CW), 1310 nm ±1 nm, 23°C ±3K, 5 to 75% relative humidity 9 to 50 µm test fiber with ceramic DIN connector.

3. −5 to +45°C.

4. With Viavi light sources.

General (typical at 25°C)	
Storage and Interface	
Data storage	100 results
Data download capability	Micro USB interface for PC transfer
Power Supply	
Dry batteries	2x Mignon (AA) 1.5 V
Rechargeable batteries	2x Mignon (AA) NiMH 1.2 V
AC operation	Via micro USB and SNT-505
Battery life	≥200 hr Automatic power off after 20 minutes
Environmental Conditions	
EMI/ESD	CE compliant
Recommended calibration interval	3 years
Operating temperature	−10 to +55°C (+14 to +131°F)
Storage temperature	−40 to +70°C (−40 to +158°F)
Dimensions (H x W x D)	30 x 80 x 150 mm (1.2 x 3.1 x 5.9 in)
Weight	200 g (0.45 lb)

Ordering Information

Description	Part Number
OLP-34 optical power meter InGaAs, +5 dBm with data storage and USB download capability	2302/11
OLP-35 optical power meter InGaAs, +10 dBm with data storage and USB download capability	2302/12
OLP-38 optical power meter Filtered InGaAs, +26 dBm with data storage and USB download capability	2302/13

Each optical power meter includes a 2.5 mm UPP adapter, AA alkaline batteries, a quick start guide, neck strap, a belt bag, and a USB connection cable.

Description	Part Number
Optional Accessories	
Fiber cleaning consumables kit	FCR-CLN-01
NiMH rechargeable batteries, Mignon AA, 1.2 V (2 batteries required)	2237/90.02
SNT-505; universal AC power adapter, micro USB connector	2302/90.01
UPP adapter for LC, MU (1.25 mm)	2256/90.03
USB connection cable	K 807
Smart Reporter (free download from http://www.updatemyunit.net/)	

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