

Acterna pocket-sized optical power meters Optical power meter OLP-5, OLP-6 and OLP-8

The Acterna 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 Acterna 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 Acterna 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.

Highlights

- Fast, accurate measurement of optical power and attenuation
- Easy to use, rugged, lightweight solution
- Dedicated for all singlemode and multimode applications like LAN, Telecom, CATV, and DWDM-Testing
- Universal push pull interface
- Twintest and Auto- λ
- Three year recalibration period



Simple, reliable, economic solution

Automatic identification of individual fibers

Pocket-sized OLPs can be used with an Acterna 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 singlemode 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 2.5 mm UPP you can connect every 2.5 mm optical connector without changing any adapter.



Acterna OLP-5 BN2256/01	
- Display range	-60 to +5 dBm
 Max. permitted input level 	+10 dBm
 Accuracy 	
Intrinsic uncertainty ⁽¹⁾	±0.20 dB (±5%)
Linearity ⁽²⁾ ±0.06 d	B (-50 to +5 dBm)
 Wavelength range 	780 to 1600 nm
 Standard wavelength settings 	820, 850,
	1300, 1550 nm
 Wavelength and modulation de transformation of a constraint of a	etection
together with ULS-5, ULS-6, UL	_S-15 Trom
Series E 270 Hz 21	
1200 1550 pm	50 Hz, $1 KHz$, $2 KHz50 \text{ to} \pm 5 \text{ dBm}$
820, 850 nm	-45 to $+5$ dBm
Connectable fiber types 9/1	125 to 100/140 um
	120 to 100/110 pin
Acterna OLP-6 BN 2256/02	
- Display range	65 to + 10 dBm
 Max_permitted input level 	+10 dBm
 Accuracy 	r to ubin
Intrinsic uncertainty ⁽¹⁾	±0.20 dB (±5%)
Linearity ⁽²⁾ ±0.06 c	dB (-50 to +5dBm)
Linearity ⁽²⁾ ±0.06 c – Wavelength range	dB (-50 to +5dBm) 780 to 1650 nm
Linearity ⁽²⁾ ±0.06 c – Wavelength range – Standard wavelength settings	B (-50 to +5dBm) 780 to 1650 nm 780, 850,
Linearity ⁽²⁾ ±0.06 c – Wavelength range – Standard wavelength settings 130	dB (-50 to +5dBm) 780 to 1650 nm 780, 850, 00, 1310, 1550 nm
Linearity ⁽²⁾ ±0.06 c – Wavelength range – Standard wavelength settings 130 – Wavelength and modulation de	dB (-50 to +5dBm) 780 to 1650 nm 780, 850, 00, 1310, 1550 nm etection
Linearity ⁽²⁾ ±0.06 c – Wavelength range – Standard wavelength settings 13(– Wavelength and modulation de together with OLS-5, OLS-6, OL	B (-50 to +5dBm) 780 to 1650 nm 780, 850, 00, 1310, 1550 nm etection _S-15
Linearity ⁽²⁾ ±0.06 c – Wavelength range – Standard wavelength settings 13(– Wavelength and modulation de together with OLS-5, OLS-6, OL from series E	IB (-50 to +5dBm) 780 to 1650 nm 780, 850, 00, 1310, 1550 nm etection _S-15
Linearity ⁽²⁾ ±0.06 c – Wavelength range – Standard wavelength settings 13(– Wavelength and modulation de together with OLS-5, OLS-6, OL from series E 270 Hz, 33	B (-50 to +5dBm) 780 to 1650 nm 780, 850, 20, 1310, 1550 nm etection _S-15 30 Hz, 1 kHz, 2 kHz
Linearity ²³ ±0.06 c – Wavelength range – Standard wavelength settings 13c – Wavelength and modulation de together with OLS-5, OLS-6, OL from series E 270 Hz, 33 1300, 1310, 1550 nm	B (-50 to +5dBm) 780 to 1650 nm 780, 850, 20, 1310, 1550 nm etection LS-15 30 Hz, 1 kHz, 2 kHz -50 to +10 dBm
Linearity ²³ ±0.06 c - Wavelength range - Standard wavelength settings 130 - Wavelength and modulation de together with OLS-5, OLS-6, OL from series E 270 Hz, 33 1300, 1310, 1550 nm 780, 850 nm	B (-50 to +5dBm) 780 to 1650 nm 780, 850, 20, 1310, 1550 nm etection .S-15 30 Hz, 1 kHz, 2 kHz -50 to +10 dBm -45 to +10 dBm
Linearity ⁽²⁾ ±0.06 c Wavelength range Standard wavelength settings 130 Wavelength and modulation de together with OLS-5, OLS-6, OL from series E 270 Hz, 33 1300, 1310, 1550 nm 780, 850 nm Connectable fiber types 9/1	B (-50 to +5dBm) 780 to 1650 nm 780, 850, 20, 1310, 1550 nm etection .S-15 30 Hz, 1 kHz, 2 kHz -50 to +10 dBm -45 to +10 dBm 125 to 100/140 μm
Linearity ⁽²⁾ ±0.06 c Wavelength range Standard wavelength settings 130 Wavelength and modulation de together with OLS-5, OLS-6, OL from series E 270 Hz, 33 1300, 1310, 1550 nm 780, 850 nm Connectable fiber types 9/1	B (-50 to +5dBm) 780 to 1650 nm 780, 850, 20, 1310, 1550 nm etection 2S-15 30 Hz, 1 kHz, 2 kHz -50 to +10 dBm -45 to +10 dBm 125 to 100/140 μm
Linearity ⁽²⁾ ±0.06 c Wavelength range Standard wavelength settings 13(Wavelength and modulation de together with OLS-5, OLS-6, OL from series E 270 Hz, 33 1300, 1310, 1550 nm 780, 850 nm Connectable fiber types 9/1 Acterna OLP-8 BN2256/03	B (-50 to +5dBm) 780 to 1650 nm 780, 850, 20, 1310, 1550 nm etection .S-15 30 Hz, 1 kHz, 2 kHz -50 to +10 dBm -45 to +10 dBm 125 to 100/140 μm
Linearity ⁽²⁾ ±0.06 c Wavelength range Standard wavelength settings 13(Wavelength and modulation de together with OLS-5, OLS-6, OL from series E 270 Hz, 3: 1300, 1310, 1550 nm 780, 850 nm Connectable fiber types 9/1 Acterna OLP-8 BN2256/03 Display range	B (-50 to +5dBm) 780 to 1650 nm 780, 850, 00, 1310, 1550 nm etection _S-15 30 Hz, 1 kHz, 2 kHz -50 to +10 dBm -45 to +10 dBm 125 to 100/140 μm

		270 Hz, 33	80 Hz, 1 kHz, 2 kHz
	1300, 1310, 1550 nn	ı	-50 to +10 dBm
	780, 850 nm		-45 to +10 dBm
-	Connectable fiber typ	es 9/1	25 to 100/140 µm
Ac	terna OLP-8 BN2256	/03	
_	Display range		-50 to +23 dBm
-	Max. permitted input	level	+23 dBm
-	Accuracy ⁽¹⁾		
	Intrinsic uncertainty	1)	±0.20 dB (±5%)
	Linearity ⁽²⁾	±0.06 dB	(-35 to +20 dBm)
-	Wavelength range		780 to 1650 nm
-	Standard wavelength	settings	980, 1310,
			1480, 1550 nm
-	Wavelength and mod	ulation de	tection
	together with OLS-5,	0LS-6, 0L	S-15
	from series E		
	:	270 Hz, 33	80 Hz, 1 kHz, 2 kHz
	1310, 1550 nm		-35 to +23 dBm
	980nm		-30 to +23 dBm

-	Connectable fib	er types	9/125 µm	to 10/125µm
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Ge	eneral specifications	
_	Optical connector	
	Universa	I Push-Pull (HPP) adapter
	Matches DIN_ST_FC	SC F2000 flat or angled
	Matches Din, 51, 10	face nluge
_	Photodiada type	Cormanium
_	Dicplay	
_	Display Docult display in	dPm_dP
	Desolution 0.01 dl	ubili, ub 2 bolow 60 dPm 0.1 dP
	Medulation datastion 2	
	Wouldongth detection #	
	Wavelength detection	011 (AUI0-Λ) AU
	Permanent moue	PEKIVI
	Battery charge state in	% when switching on/off
-	Reference level	tored for each would anoth
	Reference level s	tored for each wavelength
-	Operating time from dr	y batteries typical 130 n
-	Power supply	
	Dry Datteries	2 X Wignon (AA) 1.5 V
	OF NICO CEIIS	Z X IVIIGNON (AA) 1.2 V
-	Discharge protection to	r batteries/NiCd cells
	Automatic	power down arter approx.
	20 minutes	to conserve battery power
	Electromognetic compo	(IUNCTION CALL DE DISADIED)
-	Electromagnetic compa	iliDiily
	Corres	
	EN 50	ion interval
-	Recommended calibrat	ion interval 3 years
-	Ampient temperature	1000 +- 5000
	Nominal range use	-10°C to +50°C
	Storage and transport	-40°C to +70°C
-	Dimensions (w x h x d)	70 00 140
		approx. 73 x 28 x 140 mm
-	weight	approx. 180 g

benner j contents/perior meter	
Acterna power meter OLP-5	
 OLP-5 comes complete with 	
power meter	(-60 to + 5 dBm)
2 dry batterie	s Mignon AA 1.5V
	1 belt bag
(operating manual
Acterna power meter OLP-6	
 OLP-6 comes complete with 	
power meter (-	-65 to + 10 dBm)
2 dry batterie	s Mignon AA 1.5V
	1 belt bag
(operating manual
Acterna optical level meter OLP-8	3
 OLP-8 comes complete with 	
power meter ((-50 to +23 dBm)
2 dry batterie	s Mignon AA 1.5V
	1 belt bag
(
·	operating manual
Accessories	operating manual
Accessories – Cleaning kit for optical plugs	BN 2229/90.07
Accessories — Cleaning kit for optical plugs — Spare tape for cleaning kit	Diperating manual BN 2229/90.07 BN 2229/90.08
Accessories – Cleaning kit for optical plugs – Spare tape for cleaning kit – Dry batteries, Mignon (AA) type	BN 2229/90.07 BN 2229/90.08 BN 2229/90.08 BN 2229/90.01
Accessories – Cleaning kit for optical plugs – Spare tape for cleaning kit – Dry batteries, Mignon (AA) type (2 require	BN 2229/90.07 BN 2229/90.07 BN 2229/90.08 BN 2229/90.01 d per instrument)
Accessories – Cleaning kit for optical plugs – Spare tape for cleaning kit – Dry batteries, Mignon (AA) type (2 require – NiCd batteries, Mignon (AA) type	BN 2229/90.07 BN 2229/90.08 BN 2229/90.08 BN 2229/90.01 d per instrument) e BN 2229/90.02
Accessories – Cleaning kit for optical plugs – Spare tape for cleaning kit – Dry batteries, Mignon (AA) type (2 require – NiCd batteries, Mignon (AA) type (2 require	BN 2229/90.07 BN 2229/90.07 BN 2229/90.08 BN 2229/90.01 d per instrument) e BN 2229/90.02 d per instrument)
Accessories – Cleaning kit for optical plugs – Spare tape for cleaning kit – Dry batteries, Mignon (AA) type (2 require – NiCd batteries, Mignon (AA) type (2 require – NiCd battery charger (for extern	BN 2229/90.07 BN 2229/90.07 BN 2229/90.08 BN 2229/90.01 d per instrument) e BN 2229/90.02 d per instrument) al charging)
Accessories - Cleaning kit for optical plugs - Spare tape for cleaning kit - Dry batteries, Mignon (AA) type (2 require - NiCd batteries, Mignon (AA) type (2 require - NiCd battery charger (for extern 230 V, European AC line plug	BN 2229/90.07 BN 2229/90.08 BN 2229/90.08 BN 2229/90.01 d per instrument) e BN 2229/90.02 d per instrument) al charging) BN 2229/90.03
Accessories - Cleaning kit for optical plugs - Spare tape for cleaning kit - Dry batteries, Mignon (AA) type (2 require - NiCd batteries, Mignon (AA) type (2 require - NiCd battery charger (for extern 230 V, European AC line plug 110 V, US AC line plug	BN 2229/90.07 BN 2229/90.07 BN 2229/90.08 BN 2229/90.01 d per instrument) e BN 2229/90.02 d per instrument) al charging) BN 2229/90.03 BN 2229/90.03
Accessories - Cleaning kit for optical plugs - Spare tape for cleaning kit - Dry batteries, Mignon (AA) type (2 require - NiCd batteries, Mignon (AA) type (2 require - NiCd battery charger (for extern 230 V, European AC line plug 110 V, US AC line plug 230 V, UK AC line plug	BN 2229/90.07 BN 2229/90.08 BN 2229/90.08 BN 2229/90.01 d per instrument) e BN 2229/90.02 d per instrument) al charging) BN 2229/90.03 BN 2229/90.09 BN 2229/90.09

Transport case MK-5BN 2126/90.01(space for 2 instruments, 2 cables, OVF-1)Transport bag MT-32BN 2126/32(space for 3 instruments, several cables, OVF-1,battery charger)

- Calibration report for OLP-5/OLP-6/OLP-8 BN 2256/90.02

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

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