

Acterna Optical Laser Source OLS-15

High performance single port dual laser source

Acterna high power singlemode laser source

OLS-15 is a high power singlemode laser source designed for use with all Acterna's high performance and pocket-sized optical power meters.

High performance

The power and stability of the OLS-15 source make it ideal for use with singlemode fibers and for accurate monitoring of long distance links.

Universal adapters provide reliable, reproduceable connection to all common fiber optic connector types.

Twintest and auto wavelength

OLS-15 can be used with an Acterna OLP (optical power meter) for Twintest and auto wavelength detection.
The actual used wavelength is automatically detected by the OLP which then switches to the right wavelength range. TwinTest provides two wavelength loss measurements automatically. Both functions help to avoid errors during the measurement procedure.

A single port provides connection for 1310 and 1550 nm testing. This saves connect/disconnect time as well as reducing cleaning procedures and connector abrasion.

Highlights

- Rugged, compact and lightweight
- Ideal for networks with singlemode fibers and long distance links
- Three year recalibration period
- One port for dual wavelength
- Auto- λ and Twintest
- Simple, reliable operation
- PC and APC versions



Automatic identification of individual fibers

OLS-15 can be used with an Acterna OLP to detect the modulation frequency of the fiber to be measured, for identification purposes.

Rugged field instrumentation

OLS-15 can be operated with AC, dry or rechargeable batteries. It is supplied in a robust housing, with splash-proof foil keypad and protectors for the optical connectors, to ensure reliable operation even in harsh field conditions.

Acterna OLS-15 Optical Laser Source

Ordering information

Optical Laser Source

- Acterna OLS-15: /PC or /APC BN 2238/01 or /11

- Calibration report for OLS-15 BN 2238/90.01

Specifications(1)

-	Optical source type		Dual	FP laser
-	Wavelength ⁽²⁾⁽³⁾	1310 ± 20	nm/1550 :	±20 nm
-	FWHM spectral widt	:h ⁽⁴⁾	<5 nm	/<5 nm
-	Output power (CW)		into 9/	125 μm
-	Class 1 laser as per	r IEC 825		-7 dBm
-	Output level reducti	ion		
	In Twintest mode, A	UTO-I and	FMOD	3 dB

Total output power uncertainty⁽⁵⁾

in range -10 to +55°C	±1 dB
111 Tange - 10 to +33 C	± I UD

Output signal stability

(valid for CW and modulated signals)

- Short-term

(15 min, -10 to +55°C, $\Delta T = \pm 0.3$ K) ± 0.02 dB typ. **Long-term** (8h, -10 to +55°C, $\Delta T = \pm 3$ K) ± 0.2 dB

Modes

- CW	continuous wave output signal
 TWIN Test 	alternating output signal with 1310
	or 1550 nm identifiers
 AUTO-λ 	

output signal has 1310 or 1550 nm identifier

FMOD square wave modulation
(270 Hz, 1 kHz or 2 kHz, selectable)

Optical connector

Physical Contact (PC) or Angled Physical Contact (APC)

Interchangeable test adapters for BN 2060/00.XX series e.g., DIN, FC, SC, LC, E2000 and others



General specifications

Power supply

Dry batteries 2 x Mignon (AA size), 1.5 V Rechargeable batteries

NiCd cells 2 x Mignon (AA size), 1.2 V

- Operating time

Dry batteries typical 28 hours
 NiCds typical 9 hours

- Battery/NiCd power saving

The instrument switches off automatically after approx. 20 min (function can be disabled)

approx. 20 min (function can be disabled)AC separate AC adapter

Battery charging internally using AC adapter externally with charger unit

- Electromagnetic compatibility

corresponds to EN standards 50 081-1 and 50 082-1 (CE conformance)

Recommended calibration
 Ambient temperature
 Storage and transport
 interval 3 years
 -10 to +55°C
 -40 to +70°C

- Dimensions (w x h x d)

approx. 95 x 49 x 195 mm

- Weight (including batteries/NiCds)

approx. 500 g

Delivery contents

OLS-15 Single port dual laser 1310/1550 nm

 1 interchangeable adapter from BN 2060/00.XX range

2 dry batteries
 Mignon (AA size), 1.5 V

- Operating manual

Accessories

-	 Optical connector cleaning kit 	BN 2229/90.07
-	 Spare tape for cleaning kit 	BN 2229/90.08
	MICHAEL MINNEY (AA) tons	

- NiCd cells, Mignon (AA) type

(2 required per instrument) BN 2229/90.02

Battery charger (for external charging)

230 V, European AC line plug
 110 V, US AC line plug
 230 V, UK AC line plug
 BN 2229/90.09
 BN 2229/90.19

AC Adapter NT-20

 European version 	BN 2238/90.02
 UK version 	BN 2238/90.03
 US version 	BN 2238/90.04
 Australian version 	BN 2238/90.05
 Japanese version 	BN 2238/90.06
 Neck strap 	BN 820/00.52

- ABK-30 storage box for optical accessories

BN 2126/30

 Equipment case MK-1 BN 2090/13 (rigid shell case for 2 x OLX-1x plus accessories)

Equipment bag MT-2
 (nylon bag for 2 x OLX-1x plus accessories)

 Equipment bag MT-3 BN 2126/02 (nylon bag for 3 x OLX-1x plus accessories)

 Equipment bag MT-22 (nylon bag for 1 x OLX-1x and 1 x OLX-x plus accessories)

 Equipment bag MT-32 BN 2126/32 (nylon bag for 1 x OLX-1x and 2 x OLX-x plus accessories)

 Equipment case MK-4 BN 2092/12 (rigid shell case for 3 x OLX-1x plus accessories)

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

⁽¹⁾ All data valid after a 15 minute warm up time

⁽²⁾Other wavelengths on request

⁽³⁾At 23°C±3K

⁽⁴⁾According to Telecordia number TR-TSY-000887

 $^{^{} ilde{ iny 5}}$ Depends on the quality of the applied conector

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