

The Acterna OLA-15B is a handy-sized, rugged optical attenuator for single mode applications from 1260 to 1625 nm. Applications include bit error rate tests, determination of system margin and receiver sensitivity, and calibration of optical power meters.

# Wide measurement range, simple operation

OLA-15B has a large rotary control on the front panel which makes setting of the attenuation quick and easy. Attenuation can be set within a wide range from 3 to 60 dB.

For high-return loss applications — e.g., CATV systems — both optical connectors can be provided with an APC (angled physical contact) interface as an option.

# **Rugged field instrumentation**

OLA-15B 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.

#### **Features**

- Multiple applications in optical system verification, installation and maintenance
- Ideal for optimization of DWDM systems
- Wide attenuation range
- Simple, reliable operation
- Rugged, compact and lightweight
- 3 years re-calibration period



# Acterna OLA-15B Variable Optical Attenuator

#### Ordering information

- OLA-15B/PC	BN 2239/02
- OLA-15B/APC	BN 2239/21
- Calibration report for OLA-15B	BN 2239/90.01

# **Product specification**

# Wavelength

- Range of use	1260 to 1625 nm
<ul> <li>Calibrated at</li> </ul>	1310 and 1550 nm

# Attenuation setting

- Attenuation ran	ge <sup>(1)</sup>	3 to 60 dB
- Minimum inser	tion loss <sup>(1)</sup>	≤3 dB
<ul><li>Linearity</li></ul>		±0.2 dB
- Repeatability of	f attenuation setting <sup>(2)</sup>	±0.1 dB
- Total attenuation	on uncertainty <sup>(1)</sup>	$\pm 0.8~\mathrm{dB}$
<ul> <li>Setting type</li> </ul>	continuous over the e	entire range
<ul><li>Function</li></ul>	b	idirectional

Attenuation display 4 digit liquid crystal display - Displayed value(1)

absolute attenuation including connector - Resolution 0.05 dB

Optical input/output Physical Connector (PC) or Angled Physical Connector (APC)

Interchangeable test adapters of BN 2060/00.XX series BN 2060/00.X e.g. DIN, FC, SC, ST, E2000

<ul> <li>Fiber type</li> </ul>	single-mode 9/125mm
- Return loss at input/outpu	>40 dB (PC)
	Or >60 dB (APC)

+ 23 dBm - Maximum input level

# **General specifications**

# Power supply

- Dry batteries 2 x Mignon (AA) 1.5 V
- NiCd rechargeable batteries
  - 2 x Mignon (AA) 1.2 V
- Operating time (typical)

45 h (dry batteries)/15 h (NiCd cells)

- Battery/ NiCd power saving

automatic switch after approx. 20 min (can be disabled)

- AC line operation

with separate AC adapter unit NT-20 - Battery charging internally using NT-20, externally with charger unit

- Electromagnetic compatibility

corresponds to EN standards 50081-1 and 50082-1(CE conformance) Recommended calibration interval 3 years

#### Ambient temperature

<ul> <li>Nominal range of use</li> </ul>	-5 to +55°C
<ul> <li>Storage and transport</li> </ul>	-40 to +70°C

- Dimensions (w x h x d) in mm

approx. 95 x 49 x 195 - Weight (including batteries) approx. 500g

# **Delivery contents**

- OLA-15B variable optical attenuator
- 2 interchangeable adapters from BN 2060/00.XX range
- Dry batteries 2 x Mignon (AA)1.5 V
- Operating manual

#### **Accessories**

<ul> <li>Optical connector cleaning kit</li> </ul>	BN 2229/90.07
- Spare tape for cleaning kit	BN 2229/90.08
- NiCd cells, Mignon (AA) type	BN 2229/90.02
(2 required per instrument)	

- Battery charger (for external charging) 230 V, European AC line plug BN 2229/90.03 110 V, US AC line plug BN 2229/90.09 230 V, UK AC line plug 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 BN 2126/01 (nylon bag for 2 x OLX-1x plus accessories)

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

BN 2126/22 - 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 sleeves is found in separate data sheet: "Acterna fiberoptic test adapters and cables".

- (1) Including connectors (to IEC 874-1, method 6), depending on quality of connectors applied to the OLA.
- (2) Excluding remating.
- <sup>(3)</sup> Typical value; depends on the characteristics of the external plug.

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