## ООО "Техэнком" Контрольно-измерительные приборы и оборудование www.tehencom.com



COMMUNICATIONS TEST & MEASUREMENT SOLUTIONS



# SmartClass<sup>™</sup> OLA-54 and OLA-55

**Optical Level Attenuator** 



Key features

- 50/125 μm multimode fiber design (SmartClass OLA-54)
- Ready for 40 Gbps systems (SmartClass OLA-55)
- New optical design allowing for low minimum insertion loss
- Wheel for precise and fast manual setting
- Absolute and relative attenuation setting
- FTTx ready

### JDSU SmartClass optical handhelds go beyond the basics

With more than 100,000 optical handhelds already in use, JDSU continues the success story with the SmartClass optical handhelds. The SmartClass help your network move to the next level of performance. JDSU SmartClass optical handhelds encompass a new, intelligent, and next level product line for testing all optical signals and systems, including broadband, PONs, and Gigabit Ethernet.

All of SmartClass optical handhelds provide:

- An extended number of calibration wavelengths for the highest performance range in the industry.
- The intuitive graphical user interface for fast, easy, and straightforward operation.
- The intelligent power supply management system.•
- The belt bag for safe and hands-free operation and transport
- Traceable measurements to international standards for confidence in accuracy.
- A robust, shock-proof, and splash-proof design for field operation
- Quick start operation, requiring no warm-up time and reducing testing time.

The SmartClass OLA-54 (optical level attenuator) is designed for multimode fiber systems (50/125  $\mu$ m fiber).

The SmartClass OLA-55 (optical level attenuator) is a future-proof instrument for system testing, installation, maintenance, and production of single-mode fibers. Due to minimized differential group delay (DGD), the OLA-55 is also suitable for 40 Gbps systems.

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SMARTCLASS OLA-54 AND OLA-55

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### Accessories



OCK-10 Optical Connector Cleaning Kit (accessory)



OVF-1 Visual Fault Locator (accessory)



Optical adapters (BN 2150) for laser source output



Worldwide compatible AC adapter (SNT-121A)



SMARTCLASS OLA-54 AND OLA-55

#### Specifications

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	SmartClass OLA-54	SmartClass OLA-55	
	BN 2280/41 Multimode	BN 2280/01 Single-mode	
		BN 2280/21 Single-mode APC	
Adjustable wavelength range	750 to 1350 nm in 1 nm increments	1260 to 1650 nm in 1 nm increments	
Fiber type	50/125 μm	9/125 μm	
Calibrated wavelengths	850 nm, 1300 nm	1310 nm, 1550 nm, 1625 nm	
Display range <sup>(1)</sup>	<2.5 to 55 dB	2.0 to 60 dB	
Minimum insertion loss <sup>(1)</sup>	<2.5 dB	<2.0 dB	
Linearity	± 0.2	± 0.2	
Repeatability of attenuation setting <sup>(2)</sup>	$\pm$ 0.1 dB	$\pm$ 0.1 dB	
Total attenuation accuracy <sup>(1)</sup>	typ. $\pm$ 0.8 dB	$\pm$ 0.8 dB	
Setting type	Continuous over the entire range	Continuous over the entire range	
Function	Bi-directional	Bi-directional	
Displayed value <sup>(1)</sup>	Absolute or relative attenuation value	Absolute or relative attenuation value	
Max. permitted level	+20 dBm	+23 dBm	

(1) Including connectors (to IEC874-1, method 6), depending on quality of the connectors applied to the OLA (2) Excluding remating

#### **General data**

#### Display

Illuminated graphical display, resolution of $128 \times 64$ dots.	
Results displayed in	dB
Backlight function switchable via a separate key	

#### Connector

Optical connector interchangeable adapter from BN 2150/00.xx range is suitable for measurements on flat or angled physical contact systems

#### **Power supply**

Four dry batteries Mignon/AA, 1.5 V or NiMH rechargeable cells Mignon/AA, 1.2 V Operating time from dry batteries >300 h Batteries/NiCd/NiMH power saving: The instrument switches off automatically after ~20 min (function can be disabled) AC line operation via separate AC adapter Integrated fast battery charging function (2 hours) External 12 V DC operating via an AC adapter or a 12 V car battery adapter

#### **Electromagnetic compatibility**

Corresponds to IEC 61326 (CE conformance)

#### Calibration

Suggested calibration interval	3 years

#### **Ambient temperature**

Nominal range of use	-10°C to +55°C
Storage and transport	-40°C to +70°C

#### Dimensions and Weight

$W \times H \times D$ approximately	95 imes 60 imes 195 mm
	$(3.74 \times 2.36 \times 7.68 \text{ in})$
Weight approximately	500 g (1.1 lb)





SMARTCLASS OLA-54 AND OLA-55



#### **Order information**

Order number	Instrument
BN 2280/01	SmartClass OLA-55 Single-mode, variable attenuator, PC
BN 2280/21	SmartClass OLA-55 Single-mode, variable attenuator, APC
BN 2280/41	SmartClass OLA-54 Multimode, variable attenuator, 50/125 μm

#### Included with the SmartClass OLA-55

2 interchangeable adapter from BN 2150/00.xx (range (must be selected), 4 dry batteries Mignon/AA, 1.5 V, operating manual, MT-1S belt bag

BN 2150/00.32Optical adapter ST typeBN 2150/00.58Optical adapter SC typeBN 2150/00.51Optical adapter FC typeBN 2150/00.50Optical adapter DIN typeBN 2150/00.59Optical adapter LC type	
BN 2150/00.51Optical adapter FC typeBN 2150/00.50Optical adapter DIN type	
BN 2150/00.50 Optical adapter DIN type	
BN 2150/00.59 Optical adapter LC type	
BN 2252/01 OVF-1 Visual Fault Locator	
BN 2229/90.21 OCK-10 Optical Connector Cleaning Kit	
BN 2229/90.07 Optical cleaning tape	
BN 2229/90.08 Spare tape for optical cleaning tape	
BN 2237/90.02 NiMH cells, Mignon/AA, 1.2 V (4 required per instrument)	
BN 2277/90.01 SNT-121A Worldwide compatible AC adapter	
K804 USB connection cable	
BN 2277/90.02 MT-1S belt bag for one instrument	
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 2280/90.01 Calibration Report	

Detailed information regarding test adapters, cables, and fiber optic sleeves can be found in a separate datasheet entitled "JDSU Fiber Optic Test Adapters and Cables".

#### **Test & Measurement Regional Sales**

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FAX: +1 301 353 9216	FAX: +1 954 345 4668	FAX: +852 2892 0770	FAX: +49 7121 86 1222	