

Features

- 850nm and 1300nm wavelengths
- Stable calibrated output
- Proven, reliable, and compact design
- Easy to use—three buttons control all essential functions
- Continuous wave and modulated output modes
- Snap-On Connector (SOC) interface adapts to all industry standard fiber optic connectors and other less common types
- Long battery life—more than 24 hours of continuous operation
- User-selectable auto-shutoff
- AC power converter and adapter available for prolonged or benchtop use
- Rugged and splashproof
- Economically priced



Applications

Insertion Loss and Link Loss Testing

Paired with a RIFOCS 555B or 557B optical power meter, the 252B serves as an economical dual wavelength LED source for testing the insertion loss of multimode and single-mode fiber optic cables and connectors. The 252B can also be used with an optical power meter for link loss testing of installed cable plants.

The 850nm and 1300nm calibrated output wavelengths make the 252B dual LED source particularly useful for testing and maintaining local area networks (LANs), premises networks, and fiber distributed data interfaces (FDDI).

In addition, a broad range of Snap-On Connector (SOC) adapters for both industry standard fiber optic connectors, and many less common types, makes the 252B an indispensable tool for LAN service technicians and others working with light-based transmission systems.

Key Specifications

Nominal wavelengths	850nm	1300nm
Wavelength range	840-880nm	1270-1345nm
Max. spectral width	55nm	150nm
Stability, 1 hour	±0.05dB	±0.05dB
Typical power output:		
100/140µm GI MM	-13dBm	-20dBm
62.5/125µm GI MM	-13dBm	-20dBm
50/125µm GI MM	-14dBm	-21dBm
9/125µm SM	N/A	-38dBm
Power output uncertainty	±1dB	±1dB

Ordering Information

Two Snap-On Connector (SOC) adapters are included with the 252B dual LED source. Please specify the desired connector adapter types when ordering using the SOC Adapter Table, below. Additional SOC adapters may also be ordered separately.

Part No.	Description
252B	252B dual LED source
90AC	AC power converter

SOC Adapter Table

Adapter Code	Connector Type
1001	Blank
1010	DIN 47256
1020	NTT/FC-PC
1030	AT&T/ST-PC
1038	MIL-T-29504 optical termini
1040	HMS-10 (2.5mm)
1047	Mini-BNC
1050	Diamond HMS-0 (3.5mm)
1057	Stratos 430/Holtek 38000
1062	NTT/SC-PC
1081	Radiall VFO
1086	Diamond HMS-10A (SMA-2.5)
1087	SMA-905/906
10E0	Radiall EC
10E2	Diamond E-2000
10TB	Simplex TOSLINK/Spectran J-pin
10TD	TR/TX set, duplex TOSLINK/Spectran J-pin
10TR	Duplex TOSLINK TX
10TX	Duplex TOSLINK TR
10ZP	H-P Versalink/Spectran V/Z-pin

Specifications¹

Subject to change without notice

Center wavelengths:		
Nominal	850nm	1300nm
Range (typical)	840nm to 880nm	1270nm to 1345nm
Max. spectral width (FWHM)	55nm	150nm
Stability, 1 hour	±0.05dB	±0.05dB
Typical power output into:		
100/140µm GI MM	-13dBm	-20dBm
62.5/125µm GI MM	-13dBm ²	-20dBm ²
50/125µm GI MM	-14dBm	-21dBm
9/125 SM	N/A	-38dBm
Power output uncertainty	±1.0dB	±1.0dB
Modulation frequencies	270Hz, 1kHz, and 2kHz ±0.5%	
Power requirements	Two AA-size 1.5V alkaline batteries provide more than 24 hours of continuous operation	
Connector interface	Snap-On Connector (SOC) interface	
Environmental:		
Operating temp.	-15°C to +55°C	
Storage temp.	-35°C to +70°C	
Humidity	0 to 95% RH, non-condensing	
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)	
Weight	241g (8.5 oz.)	
CE	EN61010; EN50081-1: 1992; EN55011, Group I, Class A; EN50082-1: 1992; IEC 801-2, -3, -4	

¹ Within specified ambient environment of +20°C to +25°C.

² Calibrated launch level.

