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Features

- 1mm indium-gallium-arsenide (InGaAs) photodetector
- 850nm, 1300nm, 1310nm, and 1550nm
 N.I.S.T. traceable calibration wavelengths
- +3 to -60dBm measurement range
- Easy to use—three buttons control all functions
- 0.01dB measurement resolution
- Relative logarithmic dB and absolute logarithmic dBm units
- Multi-wavelength reference storage—stores and recalls reference power levels for faster, more efficient measurements
- Snap-On Connector (SOC) interface adapts to all industry standard fiber optic connectors and other less common types
- Long battery life—more than 100 hours of continuous operation
- User-selectable auto-shutoff
- AC power converter and adapter available for prolonged or benchtop use
- Rugged and splashproof



Key Specifications

	Detector type	1mm InGaAs
	Calibration wavelengths	850, 1300, 1310, and 1550nm
	Calibration traceability	U.S. N.I.S.T.
or	Power range	+3 to -60dBm
	Absolute accuracy	±0.25dB
	Resolution	±0.01dB
	Polarization dependence	< 0.1dB

Applications

Insertion Loss and Link Loss Testing

The 555B 1mm InGaAs optical power meter is a rugged high quality general purpose instrument suitable for many fiber optic measurement applications.

Paired with a RIFOCS 250 Series LED source or 260 Series laser source, the 555B optical power meter is ideal for insertion loss testing of multimode and single-mode fiber optic cables and connectors. The 555B optical power meter can also be used for link loss testing of installed cable plants.

The multi-wavelength reference storage capability of the 555B optical power meter permits convenient insertion and link loss testing at different transmission windows if a 252A/252B dual LED source or 262A dual laser source is used.

Output Power Measurements

The 555B optical power meter simplifies output power measurements of transmitters and other light sources. The four calibration wavelengths, InGaAs photodetector, and wide dynamic range make the 555B optical power meter suitable for measuring the output of both LED and laser based transmitters.

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 555B an indispensible tool for technicians and others working with light-based transmission systems.



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Ordering Information		Specifications ¹ Subject to change without notice		
One Snap-On Connector (SOC) adapter is included with the 555B optical power meter. Please specify the		Detector type	1mm indium-gallium-arsenide (InGaAs)	
desired connector adapter type when ordering using the SOC Adapter Table, below. Additional SOC		Calibration wavelengths	850nm, 1300nm, 1310nm, and 1550nm	
adapters may also be ordered separately.		Power range	+3 to -60dBm	
Part No.	Description	Linearity at 1310nm and 1550nm: ±0.5dB	+3dBm to -3dBm	
555B	555B optical power meter	±0.05dB	-3dBm to -50dBm	
90AC	AC power converter	±0.5dB	-50dBm to -60dBm	
JUAC	AC power converter	10.000		
SOC Adapter Table		Absolute accuracy	±0.25dB at calibration conditions	
Part No.	Description	Typical wavelength dependence:		
1001	Blank	820 to 880nm	0.033dB/nm	
1010	DIN 47256	975 to 985nm	0.02dB/nm	
1020	NTT/FC-PC	1270 to 1330nm	0.005dB/nm	
1030	AT&T/ST-PC			
1038	MIL-T-29504 optical termini	1500 to 1625nm	0.0024dB/nm	
1040 1047	HMS-10 (2.5mm) Mini-BNC			
1050	Diamond HMS-0 (3.5mm)	Polarization dependence	< 0.1dB	
1057	Stratos 430/Holtek 38000			
1062	NTT/SC-PC	Resolution	±0.01dB	
1081	Radiall VFO			
1086	Diamond HMS-10A (SMA-2.5)	Power requirements	Two AA-size 1.5V alkaline batteries provide approx. 100 hours of	
1087 10E0	SMA-905/906 Radiall EC		continuous operation	
10E2	Diamond E-2000			
10TB	Simplex TOSLINK/Spectran J-pin	Connector interface	Snap-On Connector (SOC) interface	
10TD	TR/TX set, duplex TOSLINK/Spectran J-pin			
10TR	Duplex TOSLINK TX	Environmental:		
10TX	Duplex TOSLINK TR	Operating temp.	-15°C to +55°C	
10ZP	H-P Versalink/Spectran V/Z-pin		-35°C to +70°C	
		Storage temp.		
		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	250g (8.9 oz)	

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





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