Features

- +27 to -30dBm measurement range¹
- 980nm, 1310nm, and 1550nm N.I.S.T. traceable calibration wavelengths
- 0.01dB measurement resolution
- 2mm indium-gallium-arsenide (InGaAs) photodetector
- Easy to use—three buttons control all functions
- 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
- Splashproof

1 At 1310nm and 1550nm. +30 to -27dBm measurement range at 980nm. To avoid thermal damage, power levels exceeding +23dBm must only be measured for a period of 2 minutes may



Key Specifications

Detector type	2mm InGaAs
Calibration wavelengths	980, 1310, and 1550nm
Calibration traceability	U.S. N.I.S.T.
Power range	+27 to -30dBm1
Absolute accuracy	±0.25dB
Resolution	±0.01dB

Applications

Insertion Loss and Link Loss Testing

The 558B 2mm InGaAs optical power meter is capable of measuring significantly higher power levels than the 555B (1mm InGaAs) and 557B (3 x 3.5mm Si) instruments. With a measurement range of +27 to 30dBm¹, the 558B is particularly suited for performing measurements on CATV systems, optical amplifiers, and other high power devices.

Paired with a RIFOCS 250 Series LED source or 260 Series laser source, the 558B optical power meter is ideal for insertion loss testing of multimode and single-mode fiber optic cables and connectors. The 558B optical power meter can also be used for link loss testing of installed cable plants.

The multi-wavelength reference storage capability of the 558B 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 558B optical power meter simplifies output power measurements of optical amplifiers, transmitters, and other high output light sources. The three calibration wavelengths, 2mm InGaAs photodetector, and wide dynamic range also make the 558B suitable for a variety of other high power measurements.

In addition, a broad range of Snap-On Connector adapters for both industry standard fiber optic connectors, and other less common types, makes the 558B an indispensable tool for technicians and others working with light-based transmission systems.

< 0.1dB

Polarization dependence

Ordering Information

One Snap-On Connector (SOC) adapter is included with the 558B optical power meter. Please specify the desired connector adapter type when ordering using the SOC Adapter Table, below. Additional SOC adapters may also be ordered separately.

Part No. D	escription
------------	------------

558B 558B optical power meter 90AC AC power converter

SOC Adapter Table

Part No.	Description
Part No. 1001 1010 1020 1030 1038 1040 1047 1050 1057 1062 1081 1086 1087 10E0 10E2 10TB 10TD 10TR	Blank DIN 47256 NTT/FC-PC AT&T/ST-PC MIL-T-29504 optical termini HMS-10 (2.5mm) Mini-BNC Diamond HMS-0 (3.5mm) Stratos 430/Holtek 38000 NTT/SC-PC Radiall VFO Diamond HMS-10A (SMA-2.5) SMA-905/906 Radiall EC Diamond E-2000 Simplex TOSLINK/Spectran J-pin TR/TX set, duplex TOSLINK/Spectran J-pin Duplex TOSLINK TX Duplex TOSLINK TX
10ZP	H-P Versalink/Spectran V/Z-pin

Specifications¹ Subject to change without notice

2mm indium-gallium-arsenide (InGaAs) **Detector type**

Calibration wavelengths 980nm, 1310nm, and 1550nm

+27 to -300 Rm (1310nm and 1550nm) Power range

XXX (980mm only)

Linearity at 1310nm and 1550nm:

±0.5dB ±0.05dB ±0.5dB

Absolute accuracy

at calibration conditions

Wavelength dependence

975 to 985nm 1270 to 1330nm 1500 to 1625n/m

0.025dB/nm 0.0033dB/nm 0.0016dB/nm

Polarization depende

< 0.1dB

±0.01dB

Two AA-size 1.5V alkaline batteries provide approx. 100 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 250g (8.9 oz)

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