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558B | High Intensity Optical Power Meter

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 +25 to -30dBm¹, the 558B is particularly suited for performing measurements on CATV systems, optical amplifiers, and other high power devices.

Paired with a 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.



FEATURES

- +25 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

KEY SPECIFICATIONS

| | |
|---------------------------------|----------------------------|
| Detector type | 2mm InGaAs |
| Calibration wavelengths | 980, 1310, and 1550nm |
| Calibration traceability | U.S. N.I.S.T. |
| Power range | +25 to -30dBm ¹ |
| Absolute accuracy | ±0.25dB |
| Resolution | ±0.01dB |
| Polarization dependence | < 0.1dB |

¹ At 1310nm and 1550nm. +25 to -27dBm measurement range at 980nm. To avoid thermal damage, limit exposure high power (greater than +23dBm) to less than 30 minutes.

558B | High Intensity Optical Power Meter

SPECIFICATIONS¹

Subject to change without notice

| | |
|--|--|
| Detector type | 2mm indium-gallium-arsenide (InGaAs) |
| Calibration wavelengths | 980nm, 1310nm, and 1550nm |
| Power range | +25 to -30dBm (1310nm and 1550nm) +25 to -27dBm (980nm only) |
| Linearity at 1310nm and 1550nm: | |
| ±1.0dB | +25dBm to +22dBm |
| ±0.5dB | +22dBm to +18dBm |
| ±0.2dB | +18dBm to +10dBm |
| ±0.05dB | +10dBm to -30dBm |
| Absolute accuracy | ±0.25dB at calibration conditions |
| Wavelength dependence: | |
| 975 to 985nm | 0.025dB/nm |
| 1270 to 1330nm | 0.0033dB/nm |
| 1500 to 1625nm | 0.0016dB/nm |
| Polarization dependence | < 0.1dB |
| Resolution | ±0.01dB |
| Power requirements | 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) |

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

ORDERING INFORMATION

User will need to purchase a Snap-On Connector (SOC) adapter for use of the instrument. Please specify the desired connector adapter type when ordering (see Adapter Table below). Additional adapters may also be ordered separately.

| Part No. | Description |
|----------|--------------------------|
| 558B | 558B optical power meter |
| 90AC | AC power converter |

SOC Adapter Table

| Part No. | Description |
|----------|--|
| 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 |





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