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575L | Standard Optical Power Meter

APPLICATIONS:

Insertion Loss and Link Loss Testing

The 575L benchtop optical power meter is a versatile instrument designed to meet the needs of customers conducting fiber optic insertion loss tests and measurements in manufacturing or laboratory settings.

With a measurement range from +3 to -75dBm, and 780nm, 850nm, 1300nm, and 1550nm calibration wavelengths, the 575L is suitable for both single-mode and multimode optical fibers when used with an appropriate LED or laser source.

The 575L prints customized labels containing measurement, date, and time information when connected to a parallel or serial printer. Up to seven different label formats can be stored in non-volatile memory for later use.

A built-in serial port allows the 575L to be controlled remotely from a computer, enabling the automation of complex or repetitive measurements. LabView and LabWindows drivers for the instrument are available from Tempo.

Up to 16 575L optical power meters can be "daisy chained" via an integral I²C interface to make a multi-channel test system controlled by a designated "reference unit."

The 575L also features a BNC analog output interface, allowing users to perform discontinuity measurements or monitor optical switch performance without an optical-to-electrical converter. The analog output voltage is calibrated directly to the LCD readout, ensuring accurate and repeatable measurements when using an external voltmeter or chart recorder.



FEATURES

- +3 to -75dBm measurement range
- Logarithmic dB/dBm and linear Watt units
- 1mm indium-gallium-arsenide (InGaAs) photodetector
- 780nm, 850nm, 1300nm, and 1550nm N.I.S.T. traceable calibration wavelengths
- High resolution—0.01dB/dBm; 0.001mW/μW/nW
- Prints customized labels with power reading, time, and date on a parallel or serial printer
- Remote control via RS-232 interface
- BNC analog output interface for convenient external monitoring
- I²C interface allows up to 16 optical power meters to be connected and controlled from a designated "reference unit"
- Snap-On Connector (SOC) interface adapts to all industry standard fiber optic connectors and other less common types
- Operates on 100 to 250VAC, 50 to 60Hz input power

KEY SPECIFICATIONS

| | |
|---------------------------------|------------------------------|
| Detector type | 1mm InGaAs |
| Calibration wavelengths | 780, 850, 1300, and 1550nm |
| Calibration traceability | U.S. N.I.S.T. |
| Power range | +3 to -75dBm |
| Absolute accuracy | ±0.25dB |
| Resolution | 0.01dB/dBm; 0.001mW/μW/nW |
| Measurement modes | dB, dBm, Watt |

575L | Standard Optical Power Meter

SPECIFICATIONS¹

Subject to change without notice

| | |
|---------------------------------------|---|
| Detector type | 1mm indium-gallium-arsenide (InGaAs) |
| Calibration wavelengths | 780nm, 850nm, 1300nm, and 1550nm |
| Power range | +3 to -75dBm |
| Absolute accuracy | ±0.25dB at calibration conditions |
| Linearity: | |
| ±0.5dB | -65dBm to -75dBm |
| ±0.05dB | -3dBm to -65dBm |
| ±0.5dB | +3dBm to -3dBm |
| Resolution | 0.01dB/dBm 0.001mW/μW/nW |
| Typical wavelength dependence: | |
| 600 to 660nm | N/A |
| 820 to 880nm | N/A |
| 975 to 985nm | 0.025dB/nm |
| 1270 to 1330nm | 0.0033dB/nm |
| 1500 to 1625nm | 0.0016dB/nm |
| Connector interface | Snap-On Connector (SOC) interface |
| RS232 interface | Conforms to RS232C standards; DB25 connector, female |
| I²C interface | Conforms to Inter-Integrated Circuit (I ² C) Bus specifications |
| Parallel printer interface | Logic level: 0 to 5V; Drives 1 TTL load; DB25 connector, female |
| Analog output interface | 0 to 3V amplifier output; Max analog output load > 5k ohm; tr/ta < 0.1 ms for P ³ 1μW; tr/ta < 1 ms for P ³ 10nW |
| Power requirements | 100VAC to 250VAC, 50 to 60Hz |
| Environmental: | |
| Operating temp. | -5°C to +55°C |
| Storage temp. | -15°C to +70°C |
| Humidity | 0 to 95% RH, non-condensing |
| Dimensions | 8 x 19 x 29 cm (3.125 x 7.375 x 11.375 in.) |
| Weight | 2.15kg (4.75 lbs.) |

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 SOC adapters may also be ordered separately.

| Part No. | Description |
|----------|--------------------------|
| 575L | 575L optical power meter |

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 |

Accessories

| | |
|-----|---|
| 930 | 19-inch rack-mount adapter |
| 933 | I ² C cable |
| 935 | Male DB25 to female DB25 serial interface cable |
| 936 | Male DB25 to female DB9 serial interface cable |





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