

CHAPTER 2

SPECIFICATIONS

2.1 Transmit Section

Source: LED; 850 nm \pm 10 nm wavelength; spectral bandwidth of \pm 40 nm.
(other sources by special order)

Level: Adjustable from approx. -22 dBm to -15 dBm into 50 μ m core reference cable.

2.2 Receive Section

PIN photodiode. Spectral response 400-1100 nm. Calibration referenced to 850 nm, traceable to N.B.S.

Level:

dBm mode: +3 dBm to -65 dBm at 850 nm
dB mode: 51 dB (calibrated to -14.0 dBm) at 850 nm

Accuracy:

dBm mode: \pm 5% at 850 nm
dB mode: \pm 0.5dB at 850 nm

Resolution: 0.1 dB

2.3 Reference Cable (Standard)

Length: 1 meter

Type: 50/125 μ m

Numerical Aperture: 0.21

2.4 Power

Batteries:

Two rechargeable Ni-Cad batteries; 6.0 volt, 450 mA_H (Gould 402038-5 or equivalent).

Continuous Operating Time:

30 hours receive only.
6 hours transmit on (at optical output, -20 dBm).

Battery Charge:

115 Vac, 60 Hz
230 Vac, 50 Hz (optional)

Charge Time:

Overnight (14 hours minimum full charge)

Power Indicators:

Display; LO BAT
Panel; BATT CHG LED

2.5 Environmental

Storage Temperature: -40°C to 60°C

Operating Temperature: -10°C to 40°C

Humidity: 95% at 35°C
40% at 50°C

Altitude: (non-operating) 15,000 meters

2.6 Physical

Height: 6.5" (165 mm)

Width: 4.5" (114 mm)

Depth: 6.0" (152 mm)

Weight: 3.5 lbs. (1.56 kg)