

MADE FOR LIFE®





FPM-50A
FIBER OPTIC POWER METER
-50 to +26 dBm
INSTRUCTION MANUAL

## FPM-50A Manual

The FPM-50A is an intelligent fiber power meter designed to be simple to use. The meter can be used for absolute and relative power measurements. The meter measures a wide range of wavelengths with high precision, making it the ideal tool for use in fiber optic networks.

## FPM-50A Includes:

Fiber Optic Power Meter

Instruction Manual

Protective Cover

(3) AA Batteries (required for operation)

(2) Cleaning Swabs

FC Adapter

LC Adapter

SC Adapter

Nylon Carry Case

850, 980, 1300, 1310, 1490, 1550, 1625, 1650
InGaAs
-50 +26
±0.25
0.01
-10 to 60 °C (14 to 140 °F)
-25 to 70 °C (-13 to 158 °F)
10
≥130
3 AA
160 g (5.6 oz)
152 mm (6 in) x 74 mm (2.9 in) x 26 mm (1 in)

<sup>\*</sup>Auto-off feature: The Auto-off feature can be turned on and off by quickly pressing and releasing the on/off button. It's status is indicated in the upper left-hand corner of the LCD screen. When you see a circle with a line in it this indicates the feature is active. Quickly press and release the on/off button to deactivate the feature.

## Instructions for Use:

- 1. Absolute power measurement:
  - a. Turn on the Power Meter.
  - b. Press the  $\lambda$  key to switch between wavelengths.
  - c. Connect to light source to be measured.
  - d. Measurement will be displayed on the screen in dB and mw.
- Relative power measurement (to perform this test we suggest the use of a reference patchcord
  - a. Turn on the Power Meter.
  - b. Press the  $\lambda$  key to switch between wavelengths.
  - c. Connect the reference patchcord to the light source and to the meter. To limit movement, which can introduce error, we suggest taping the patchcord to the working surface.
  - Turn on light source and note the reference power level displayed on the screen in dB and mw.
  - e. Press the dB key, this will store the current power value as a reference value. At the same time the meter will display the current absolute power and the current relative value which will be set to 0 dB.
  - f. Disconnect the power meter and insert the cable to be tested in between the reference patchcord and the meter.
  - g. The reading on the display will show you the loss observed in the new cable being tested.
- 3. Special Function:

The FPM-50A Fiber Power Meter has a function to allow for manual calibration of the unit. Located on the upper right-hand corner of the LCD is the number 0. This indicates the unit is in the normal operation mode. Press and release the Light and  $\lambda$  button simultaneously and the unit will switch into Calibration mode. The 0 on the upper right-hand corner of the LCD screen will switch to 1. In this mode you can add an offset to your measurement. Press the Light button to add increments of 0.05 dB or press the dB button to reduce the reading by 0.05 dB. Press the ON/OFF button to save the offset.