Keys and Functions (Continued):

DEL **Delete Key – Delete Data/Cancel**

While viewing a data entry, you can press the Delete Key to delete the data.

While in Saving Mode, press the Delete Key to delete the current saved data

UNITS **Units Key** – Switch between dBm, dB, and W measurements

Press the Units Key to switch between absolute measurement (dBm), relative measurement (dB), and xW of the optical power.

mW to dBm Conversion: 10 log(mW)=(dBm)
mW, uW, nW Conversion: 1 mW=103 uW=106 nW

REF **REF Key** – Stores the current power value as the reference value

Press the REF Key to store the current power value as the reference value. When pressed, the reference value will be displayed in the top-right of the screen with "Ref" displayed next to it.

Relative Value = I Absolute Value I - I Reference Value I

LDR LED – Intelligent Backlight Controller LED

If this LED is on, then the unit is in LDR Intelligent Backlight Control Mode. While in this mode, the unit will automatically adjust the backlight based on the outside lighting, which helps save power.

B/L SET LED – Backlight Mode Indication LED

If the LED is green, then the FPM-55 is in LDR Intelligent Backlight Control Mode.

If the LED is red, then the FPM-55 is in Key-Control Mode

Indicate backlight control mode. Green light indicate that "LDR"intelligent backlight control mode, Red light indicate that key-control mode

Troubleshooting:

Problem	Possible Cause	Solution
Unit will not turn on Faint display on the LCD screen	1. Power is OFF 2. The battery power is too low	1. Turn the device ON by pressing the Power Key 2. Replace the batteries
Inaccurate Measurements	1. Optical connector is not clean 2. Incorrect fiber connection	1. Clean the optical connectors with contact cleaner 2. Ensure you are using the correct connector and reattach the fiber

Jonard Tools Warranty:

Product Type	Warranty Period
Electric/electronic/battery powered products & force gauges	1 Year

JONARD TOOLS®

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FPM-55
OPTICAL POWER METER W/ STORAGE
INSTRUCTION MANUAL

Introduction:

The FPM-55 is an intelligent Fiber power meter designed to measure absolute and relative power of fiber optic cables. The meter is able to measure and store a wide range of wavelengths to measure fiber optic cables with high precision, making it the ideal tool for use in fiber optic networks.

FPM-55 Includes:

- Power Meter with Storage
- Manual
- Protective Cover
- 3 AA batteries
- Cotton Swabs
- FC/SC/LC Adaptors

SPECIFICATIONS

Wavelengths Measured (nm)	850, 980, 1300, 1310, 1490, 1550, 1625, 1650
Detector Type	InGaAs
Measurement Range (dBm)	-50-+26
Uncertainty (dB)	±0.15 (3.5%)
Linearity (dB)	±0.02
Accuracy (dB)	0.01
Frequency ID (Hz)	270, 330, 1K, 2K
Wave ID (nm)	1310, 1490, 1550, 1625
Standard Connector	FC /2.5 mm universal
Optical Connector Compatibility	FC/SC/ST Interchangeable/2.5 mm universal (PC/UPC)
Alkaline battery	(3) 1.5V AA
Power Adapter (V)	8.4
Battery Operating time (h)	200 without backlight

* Auto-off feature: The Auto-off feature can be turned on and off by quickly pressing and releasing the on/off button. Its 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.

Software:

You can store up to 1,000 data entries in the FPM-55. If you need to upload and reference the data, you can download the FPM-55 software and instructions at: **https://jonard.com/FPM55**

Function:

Keys and Functions:

Power Key – Turn the device on or off/Change power saving mode

Long press (2 seconds) to turn the device ON or OFF

Note: The FPM-55 is initially in power saving mode and will automatically shut off after 15 minutes idle time regardless of the condition of the battery. To turn off power saving mode, short press the Power Key. "Auto-off" will be displayed in the bottom left side of the screen, indicating the device is not in power saving mode.

Wavelength Key – Wavelength Selection/Automatic Wavelength Identification

Short press to switch the wavelength you want to measure. 1310 nm is the default wavelength.

Long press (2 seconds) to enter wavelength auto-identify mode. "AU" will be displayed in the upper right side of screen, indicating the device is in auto-identify mode. Long press the wavelength button to turn this off as well.

Backlight Key – Turn the backlight on or off

Press to turn the backlight of the device ON or OFF

Save Key – Save or view your data

The FPM-55 can store up to 1000 data entries.

Press the Save Key once to display the data saving number (for your reference), and double press the Save Key to confirm saving.

To view the data entries, long press the save button to enter the data interface, and short press the Save Key to view individual entries.