



# RP 450

## Optical Power Meter

### Basic OPM for SM and MM Fiber Testing

The RP 450 Optical Power Meter measures optical power on fiber optic networks operating at many common SM and MM wavelengths. These easy-to-use optical power meters provide absolute dBm or dB loss measurements on all optical networks. The RP 450 allows the user to set the incoming signal to a “zero” reference and provide direct loss measurements.

The RP 450 provides an audible alert when the incoming signal is a modulated 2kHz tone. ODM’s single mode lasers, multi mode LEDs, or any external 2kHz optical source may generate this incoming tone. This feature is very useful for quick fiber identification of fiber under test at the field location.

Use the RP 450 to check the output at the patch panel or wall outlet in the premise, telecom or broadband market. Connection to the fiber under test is made via the included universal 2.5 mm adapter. Additional connector adapter styles are available.



## Features

- Measures 850, 1300, 1310, 1490, 1550, 1611, 1625nm wavelengths
- dB and dBm measurement modes with reference-set function
- NIST-traceable measurements
- Audible incoming 2kHz signal alert
- Interfaces with LFI 110 Live Fiber Identifier accessory
- Interchangeable input connector adapters



Attach LFI 110 accessory (sold separately) to turn the RP 450 Power Meter into a Live Fiber Identifier.



The RP 450 recognizes incoming 2kHz modulated “tones”. Tone recognition is shown onscreen and indicated by an audible beep.



Unit comes with a 2.5mm universal input adapter. Additional adapters are available; see next page for a full list of adapters.



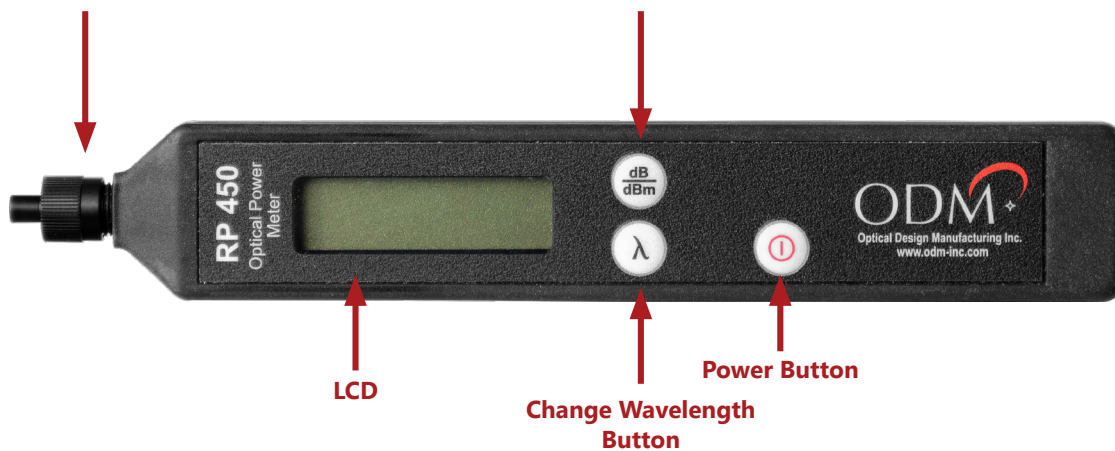
Single-instrument padded carrying pouch included.

# Specifications

OPTICAL POWER METER	
<b>Detector Type</b>	-02: InGaAs / -04: Filtered InGaAs
<b>Measurement Range</b>	-02: +6 to -70dBm / -04: +23 to -45dBm
<b>Wavelength Range</b>	850nm to 1650nm
<b>Selectable Wavelengths</b>	850 / 1300 / 1310 / 1490 / 1550 / 1611 / 1625 nm
<b>Resolution</b>	0.01dB
<b>Absolute Accuracy</b>	± 0.25 dB
<b>Optical Interface</b>	Universal 2.5mm (Additional Adapters Available)
<b>Display</b>	LCD
<b>Tone ID</b>	2kHz
<b>Power</b>	Push Button Toggle / Auto OFF
<b>Battery</b>	CR2
<b>Dimensions</b>	6.1" x 0.94" x 0.75" (15.5 x 2.38 x 1.9 cm)
<b>Weight</b>	3 oz (85.4 g)

**Interchangeable Adapter  
(2.5mm Universal Shown)**

**Measurement Mode &  
SetRef Button**



## Ordering Information

PART NO.	NOTES
RP 450-02	InGaAs detector measures optical power between +6 and -70dBm. Used for most standard fiber tests.
RP 450-04	Filtered InGaAs detector measures optical power between +23 and -45dBm. Ideal for test situations where high-powered light sources are used.

### Power Meter Adapters

PART NO.	DESCRIPTION
AC 020	2.5 mm Universal Adapter
AC 021	1.25 mm Universal Adapter
AC 026	SC Adapter for Optical Power Meter
AC 027	ST Adapter for Optical Power Meter
AC 028	FC Adapter for Optical Power Meter
AC 029	LC Adapter for Optical Power Meter
AC 126	SC/APC Adapter for Optical Power Meter

### Patch Cord Accessories

PART NO.	DESCRIPTION
AC 500	SM SC-LC - 1m Simplex
AC 501	SM SC-SC - 1m Simplex
AC 502	SM LC-LC - 1m Simplex
AC 550	MM SC-LC - 1m Simplex
AC 552	MM LC-LC - 1m Simplex
AC 600	SC-SC Simplex Bulkhead Adapter
AC 601	LC-LC Simplex Bulkhead Adapter
AC 602	LC-LC Duplex Bulkhead Adapter

### Cleaning Tools

PART NO.	DESCRIPTION
AC 089	One-Click Cleaner for 1.25mm & ODC Ferrules / Bulkheads
AC 099	One-Click Cleaner for 2.5mm Ferrules / Bulkheads
AC 090	1.25mm Swabs (100 per Pack)
AC 091	2.5mm Swabs (100 per Pack)
AC 092	SqR Pad & Fiber Wash Pen
AC 190	Cletope Cleaner - Type B - Blue Tape

M-DS005-03 RP 450

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