

Optical Power Meter

RP 450, RP 455 & RP 460



Features

- ◆ 850, 1310, 1490, 1550nm
- ◆ RP 450 – Set ref, Zero function
- ◆ RP 455 – Set ref, Zero function, Store 1000 measurements per wavelength
- ◆ RP 460 – Set ref, Zero function, Store and download 1000 measurements via USB to a computer
- ◆ Audible tone alert from incoming 2kHz signal
- ◆ Accepts all connector styles
- ◆ NIST traceable measurements
- ◆ Multimode or Singlemode application
- ◆ Long battery life
- ◆ Rugged and compact size



Description

The RP 450, RP 455 and RP 460 Optical Power Meters measure optical power on fiber optic networks operating at 850nm, 1310nm, 1490 and 1550nm. 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 providing direct loss measurements. The RP 455 provides set ref and storage of up to 1000 measurements per wavelength. The RP 460 provides these features plus the ability to transfer data via the mini USB port to a laptop computer. The RP 455 & 460 also allows a “scroll feature” to review field measurements.

The RP 450, RP 455 and RP 460 provide an audible alert when the incoming signal is a modulated 2kHz tone. The companion TP 200, DLS 300 series LED or laser sources or any external 2kHz optical source may generate this incoming tone. This feature is very useful for quick fiber identification at the field location.

Use the RP 450, RP 455 or RP 460 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 universal 2.5 mm adapter. Additional male or female connector adapter styles are available. The readily available CR 2 battery provides over 1000 operations for the power meter. A LO BAT display alerts the user to replace the battery.

Specifications

	RP 450-02 RP 455-02 RP 460-02	RP 450-03 RP 455-03 RP 460-03	RP 450-04 RP 455-04 RP 460-04
Wavelength range	850nm to 1625nm		
Measurement range	+ 3 to – 60dBm	+ 3 to –70 dBm	+23 to –45 dBm
Resolution	0.01dB		
Absolute accuracy*	+/- 0.25dB		
Detector type	Ge	InGaAs	Filtered InGaAs
Optical interface	Universal 2.5mm (Order 1.25mm or screw on adapters separately)		
Tone identification	2kHz Incoming signal, Audible Alert		
Power on	Push button ON, Auto shutoff		
Storage	Store up to 1000 measurements per wavelength RP 455 & RP 460		
Data transfer	Mini USB Port (1000 points/wavelength) RP 460 ONLY		
Dimensions	6.1x.94x.75 in. (15.5x2.38x1.90cm)		
Weight	3.0 oz (8.5g)		

Accuracy measured at –10dBm and 25°C, all other specifications are @ 25°C.

Ordering Information

RP 450-02, RP 450-03, RP 450-04 RP 455-02, RP 455-03, RP 455-04 RP 460-02, RP 460-03, RP 460-04	Includes: Padded carry case, 2.5mm universal connector adapter, CR 2 battery, Mini USB to USB cable (RP 460 only) & manual.
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NOTE: ODM Inc. offers a complete line of patch cords, adapters, cleaning aids and accessories for all aspects of optical testing. All power meters from ODM may be combined with LED or Laser Sources (TP 200 or DLS 300 series) providing a complete test kit solution. Please visit www.odm-inc.com for more information and a list of local stocking distributors.