To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc. Click here>> www.raeservices.com/services/quote.htm

Optical Power Meter

Key Features

- Low-power and high-power CW measurements
- Convenient, portable operation
- Suitable for basic power measurements from the lab to the production floor



Delivering high precision at a reasonable price, the Model 1815-C Optical Power Meter is sompatible with all of Newport's low- and high-power detectors. Most other BNO-terminated low-power and thermopile detectors will also work with the 1812 C.

Low-power, CW measurements, in the 10 pW–2 W range can be performed with Newport's sopriconductor, 818 Series Si, Ge and InGaAs detectors.

Nigh-power/measurements, in the 10 mW–300 W range can be performed with Newport 8188 and 818T Series thermopile detectors.

Additional features include wavelength compensation for detector and detector with attenuator, an analog BNC output, which allows signal monitoring using external equipment, and portable 130-hr battery operation.

NIST, ISO, IEC, ANSI, NCSL, MIL-STD by www.raeservices.com

Newport

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Call Newport's Application Sales Engineers to help you select the Optical Detector appropriate for your application.

Instrument Specifications

Display Type		3.5-digit LCD					
Sampling Rate		2.5 Hz					
Gain Ranges		6 Ranges, 1 per Decade					
Full Scale Readings:							
Low-Power		20 nW–2 mW					
Low-Power w/Attn		20 µW–2 W					
High-Power		2 W-2 kW					
DC Accuracy		< ±0,5%, ±0.25% Typ.					
Bandwidth		ℓ kHz/maα., Range Dependen					
Analog Output		Q=21/into 1 MΩ					
Input Connector		\sim	BNC				
Battery Life		$\overline{\left(0\right) }$	130-180 hr	\sim			
Battery		_7/0	6x AA-AK	Re X			
Weight [lb (kg)]	~	$\sim 1 \sim$	7.5 (0,2)	\rightarrow			
Dimension (W x H x D) [in. (mm)]		\bigcirc 3.3	(83) (60 (152) x	(7.0 (178)			
Operating Temperature	-	$\overline{5}$	1877 to 28°C, <71	0% RH			
Storage Temperature	$\neg (\forall S)$) / (.	25° t) 60°C, <9	0% RH			
		C					
System Specifications	s (?	T)					
When used with Newport Slow		nicondu	ctor detect	ors, the fo	ollowing		
System Specifications are attain	řéd!						
Model 818-UV	8)8-SL	818-ST	818-ST-UV	818-IR	818-IG		
Material	Silicon	Silicon	Silicon	Germanium	Indium Ga		

Model	∕818-UV,<	28)8-SL	818-ST	818-ST-UV	818-IR	818-IG			
Material	Silicon	Silicon	Silicon	Silicon	Germanium	Indium Gallium Arsenide			
Diameter (cm)	$(\mathcal{D}_{\mathcal{X}})^{\vee}$	1.13	1x1	1x1	0.3	0.3			
Waveleygth (m)	7 10-110	400-1100	400-1100	190-1100	780-1800	800-1650			
Power Range (dBm)	983 to +23	-90 to +33	-70 to +33	-70 to +33	-70 to +21.5	-90 to +21.5			
Display Resolution (pW	0.1	0.1	0.1	0.1	10	0.1			
Azcu(acy)	±2%	±2%	±2%	±2%	±3%	±2%			
Applicable wavelength range	200-1100	400–1100	400-1100	190–1100	780–1700	800–1650			
Dinearity C	±0.5%								
NEP @ 5 Hz and A/W	50 fW/√Hz	50 fW/√Hz	3 pW/√Hz	3 pW/√Hz	4 pW/√Hz	30 fW/√Hz			
\backslash $(\backslash \land$									

At calleration temperature maintained to \pm 0.2°C, -20 dBm level having 99% encircled energy on eccor with no optical attenuator, Calibration Factor = 5

Ordering Information

Model 1815-C

Optical Power Meter 1815-C with test data and certificate

Description

NIST, ISO, IEC, ANSI, NCSL, MIL-STD by www.raeservices.com

