

Power Measurement Kits

PMKIT Series

mks | Newport

BEST VALUED BUNDLES

These kits are useful for those who are new to optical measurements and who need simple measurement tools. All kits also include a BPH-3 Post Holder with a Slotted Base and a 3 inch long, 1/2 inch diameter post.

STANDARD PMKIT

The standard power meter kits include one of the advanced handheld meters 1919-R or 843-R series or one of the virtual meters 844-PE-USB or 845-PE-RS. One of the Photodiodes or thermopile based thermal detectors that are listed below.

In case a new ordering option is requested; customer should approach Newport sales for additional information*.

CONFIGURABLE PMKIT

The configurable PMKIT allows the customer to configure their own kit from an expanded selection including model 1918-R high performance power meter and a broader choice of detectors. This configuration must be quoted and is not available for online purchase.

PMKIT Series Advantages

- Best value for industry proven products
- Configurable to your needs
- Kit includes a power meter, a detector, and mounting assembly
- Simple ordering process and great flexibility



Available Configurations

Detector Choice	Model	Description
01	818-SL-L-FC/DBt	Fiber Optic Detector, Si, 400-1100 nm, 5 mW, DB15
02	818-UV-L-FC/DB	Fiber Optic Detector, UV-Si, 200-1100 nm, 0.2 mW, DB15
03	818-IR-L-FC/DB	Fiber Optic Detector, Ge, 780-1800nm, DB15, 10 mW
04	818-IG-L-FC/DB	Fiber Optic Detector, InGaAs, 800-1650 nm, 10 mW, DB15
05	818-UV/DB	Photodetector, UV Enhanced Silicon, 200-1100nm, DB15 Calibration Module
06	818-SL/DB	818 Photodetector, Silicon, 400-1100 nm, DB15 Calibration Module
07	818-IR/DB	818 Photodetector, Germanium, 780-1800 nm, DB15 Calibration Module
08	818-IG/DB	818 Photodetector, InGaAs, 800-1650 nm, DB15 Calibration Module
11	918D-UV-OD3R	UV Enhanced Silicon Photodetector, 200-1100 nm, OD3 Attenuator, DB15
12	918D-SL-OD3R	Silicon Detector, 400-1100 nm, OD3 Attenuator, DB15
13	918D-IR-OD3R	Germanium Photodetector, 780-1800 nm, OD3 Attenuator, DB15
14	918D-IG-OD3R	InGaAs Photodetector, 800-1650 nm, OD3 Attenuator, DB15
21	919P-003-10	Thermopile Sensor, 3 W, 10 mm, 0.19-10.6 μ m
22	919P-010-16	Thermopile Sensor, 10 W, 16 mm, 0.19-10.6 μ m
23	919P-020-12	Thermopile Sensor, 20 W, 12 mm, 0.19-10.6 μ m
24	919P-030-18	Thermopile Sensor, 30 W, 18 mm, 0.19-10.6 μ m
25	919P-040-50	Thermopile Sensor, 35 W CW, 50 mm, 0.19-10.6 μ m
26	919P-050-18HP	High Peak Power Thermopile Sensor, 50 W, 17.5 mm, 0.24-2.2 μ m
27	919P-050-26	Thermopile Sensor, 50 W, 26 mm, 0.19-10.6 μ m
28	919P-150-26	Thermopile Sensor, 150 W, 26 mm, 0.19-10.6 μ m
29	919P-250-35	Thermopile Sensor, 250 W, 35 mm, 0.19-10.6 μ m
30	919P-600-65	Thermopile Sensor, 600 W, 65 mm, 0.19-10.6 μ m
Power Meter Choice	Model	Description
01	843-R	Economical Handheld Laser Power Meter, 843-R
03	843-R-USB	Economical Handheld Laser Power Meter, 843-R-USB
04	1919-R	High Performance Handheld Optical Power Meter
05	844-PE-USB	Virtual Power Meter, USB
06	845-PE-RS	Virtual Power Meter, RS232

Specifications

Model	PMKIT-05-01	PMKIT-06-01	PMKIT-15-01	PMKIT-07-01	PMKIT-21-01	PMKIT-22-01	PMKIT-24-01
Power Meter	843-R						
Resolution (% of Full Scale)	18 bits plus sign						
Accuracy(A)	±0.25 % ± 20 p						
Sampling Rate(Hz)	15						
Display Type	High legibility TFT 320 x 240 pixel graphics LCD						
Detector	818-UV/DB	818-SL/DB	818-ST2/DB	818-IR/DB	919P-003-10	919P-010-16	919P-010-16
Wavelength Range (nm)	190 to 1100	400 to 1100	400 to 1100	780 to 1800	0.190 to 10.6 (µm)		
Maximum Power Density (W/cm ²)	30				1 kW/cm ²		
Calibration Uncertainty	4% @ 200-219nm, 2% @ 220-349nm, 1% @ 350-949nm, 4% @ 950-1100	1% @ 400-940nm, 4% @ 941-1100nm		2% @ 780-910nm, 2% @ 911-1100 4% @ 1701-1800	3%		
Calibration Uncertainty, w/ Attenuator	8% @ 200-219nm, 2% @ 220-349nm, 1% @ 350-949nm, 4% @ 950-1100	1% @ 400-940nm, 4% @ 941-1100nm		5% @ 780-910nm, 2% @ 911-1700 4% @ 1701-1800	N/A		
Maximum Measurable Power	0.2W (200 - 400 nm) and 50 mW (400 - 1100 nm)	2 W		1.3 W	3 W	10 W	30 W
Maximum Measurable Power without Attenuator	0.3 mW (200-400 nm); 0.1 mW (400 - 600 nm, 1050 nm) , 0.07 mW (600 - 1050 nm)	2.5 mW		1.3 mW			
Minimum Detectable Power	100 pW		1 nW	5 nW	40 µm	20 mW	20 mW

Note: Please refer to the individual product pages to review complete specifications.

Ordering Information

Model	Description
PMKIT-05-01	Power meter Kit (843-R, 818-UV/DB & Mounting Assy), 200-1100 nm, 0.2W
PMKIT-06-01	Power Meter Kit (843-R, 818-SL/DB & Mounting Assy), 400-1100 nm, 2W
PMKIT-15-01	Power Meter Kit (843-R, 818-ST2/DB & Mounting Assy), 400-1100 nm, 2W
PMKIT-07-01	Power Meter Kit (843-R, 818-IR/DB & Mounting Assy), 780-1800 nm, 2W
PMKIT-21-01	Power Meter Kit (843-R, 919P-003-10 & Mounting Assy), 0.19-10.6 µm, 3W
PMKIT-22-01	Power Meter Kit (843-R, 919P-010-16 & Mounting Assy), 0.19-10.6 µm, 10W
PMKIT-24-01	Power Meter Kit (843-R, 919P-030-18 & Mounting Assy), 0.19-10.6 µm, 30W

* New ordering options will have minimum order quantity.