Power Measurement Kits

PMKIT SERIES

- Choose between the standard kit or a configurable PMKIT
- Best value for industry proven products
- Kit includes a power meter, a detector, and mounting assembly
- Simple ordering process and great flexibility

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, ½ inch diameter post. You can order either a standard kit or you can configure your own set of power meter and detector using the model number PMKIT (not offered in Europe).

STANDARD PMKIT

The standard power meter kits have been updated with new power meters and detectors (available globally). The kits now include 843-R optical power meter instead of the obsolete 1916-R or 1917-R power meters. The kits with the 818P series have been replaced by the 919P Series Thermopile Sensors. See Ordering Table for the available models.

CONFIGURABLE PMKIT

The configurable PMKIT allows the customer to configure her own kit from an expanded selection including model 1919-R high performance power meter and a broader choice of detectors. This configuration must be quoted and is not available for online purchase.

Available Options For Configuration

Detector Choice	Model	Description
01	818-SL-L-FC/DB	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 Photdetector, 800-1650 nm, OD3 Attenuator, DB15
21	919P-003-10	Thermopile Sensor, 3 W, 10 mm, 0.19-10.6 µm
22	919P-010-16	Thermopile Sensor, 10 W, 16 mm, 0.19-10.6 µm
23	919P-020-12	Thermopile Sensor, 20 W, 12 mm, 0.19-10.6 µm
24	919P-030-18	Thermopile Sensor, 30 W, 18 mm, 0.19-10.6 µm
25	919P-040-50	Thermopile Sensor, 35 W CW, 50 mm, 0.19-10.6 µm
26	919P-050-18HP	High Peak Power Thermopile Sensor, 50 W, 17.5 mm, 0.24-2.2 µm
27	919P-050-26	Thermopile Sensor, 50 W, 26 mm, 0.19-10.6 µm
28	919P-150-26	Thermopile Sensor, 150 W, 26 mm, 0.19-10.6 µm
29	919P-250-35	Thermopile Sensor, 250 W, 35 mm, 0.19-10.6 µm
30	919P-600-65	Thermopile Sensor, 600 W, 65 mm, 0.19-10.6 µm
31	919P-5KW-50	Thermopile Detector, 5 kW, 50 mm, 0.19- 10.6 µm
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	841-PE-USB	Virtual Optical Power Meter, USB

Newport®

Power Measurement Kits

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-030-18**
Wavelength Range (nm)	190 to 1100	400 to 1100	400 to 1100	780 to 1800	0.190 to 10.6 (µm)	0.190 to 10.6 (µm)	0.190 to 10.6 u (µm)
Maximum Power Density (W/cm^2)	30	30	30	30	1 kW/cm^2	28 k kW/cm^2	PMKIT-24-01 W/cm^2
Calibration Uncertainty	4% @ 200-219nm, 2% @ 220-349nm, 1% @ 350-949nm, 4% @ 950-1100	1% @ 400-940nm, 4% @ 941-1100	1% @ 400-940nm 4% @ 941-1100	2% @ 780-910nm, 2% @ 911-1700nm, 4%@1701-1800	3 %	3 %	3 %
Calibration Uncertainty, w/ Attenuator	8% @ 200-219nm, 2% @ 220-349nm, 1% @ 350-949nm, 4% @ 950-1100nm	1% @ 400-940nm, 4% @ 941-1100nm	1% @ 400-940nm 4% @ 941-1100nm	5% @ 780-910nm, 2% @ 911-1700nm, 4% @ 1701-1800 nm	N/A	N/A	N/A
Maximum Measurable Power	0.2W (200 - 400 nm) and 50 mW (400 - 1100 nm)	2 W	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	2.5 mW	1.3 mW			
Minimum Detectable Power	100 pW	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	Power Meter And Detector Kit, Configurable (Price Varies)
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

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