PM300 Series Dual Channel Power and Energy Meters

Specifications

Power Meter Model	PM300	PM300E
Detector Compatibility	Photodiode Sensors S100 Series Thermal Sensors S200 Series Photodiodes (Max 10mA) Thermopiles (Max 100mV)	Photodiode Sensors S100 Series Thermal Sensors S200 Series Pyroelectric Sensors ES100/ES200 Series Photodiodes (Max 10mA) Thermopiles (Max 100mV)
Display	Graphical LCD 240 x 128 pixels (3.7" x 2.4")	
Display Format	Numerical, Bar Graph, Trend Graph	
Dimensions (H x W x D) Overall	220 x 122 x 325 mm	
Photodiode Input	**CH1 & CH2**	**CH1 & CH2**
Units	W, dBm, A	W, dBm, A, W/cm²
Measurement Ranges	7 Decades; 10nA to 10mA Ranges Selectable in W, Sensor Dependent	6 Decades; 100nA to 10mA Ranges Selectable in W, Sensor Dependent
Display Resolution	1pA per Responsivity Value (A/W)	10pA per Responsivity Value (A/W)
Accuracy	±0.2% Full Scale (1µA - 10mA) ±0.5% Full Scale (10nA - 100nA)	±0.2% Full Scale (1µA - 10mA) ±0.5% Full Scale (100nA)
Polarity	AG, CG	
Bias Voltage	0 to -10V (CG), 0 to +10V (AG)	
Thermopile Power Input	**[1]CH1 ONLY**	**CH1 & CH2**
Units	W, dBm, (V)	W, dBm, W/cm², V
Measurement Ranges	4 Decades; 100µV to 100mV Ranges Selectable in W, Sensor Dependent	3 Decades; 1mV to 100mV Ranges Selectable in W, Sensor Dependent
Display Resolution	100nV per Responsivity Value (V/W)	1µV per Responsivity Value (V/W)
Accuracy	±0.5% Full Scale (1mV to 100mV range)	±0.5% Full Scale
Pyroelectric Energy Input	**N/A**	**CH1 & CH2**
Units	N/A	J, J/cm², W
Measurement Ranges	N/A	4 Decades; 100mV to 100V Ranges Selectable in J, Sensor Dependent
Display Resolution	N/A	100µV per Responsivity Value (V/J)
Accuracy	N/A	± 0.5% Full Scale
Maximum Repetition Rate	N/A	5 kHz
External Trigger		
Connector	N/A	BNC Rear
Programmable Analog Output		
Signal	Selectable: CH1, CH2, CH1-CH2, CH1/CH2	
Voltage Range	0 to ±10V; Programmable Gain and Offset	
Bandwidth	Up to 500Hz, Dependent on Sensor and Settings	
Analog Outputs		
Signal	CH1, CH2 Amplified Input Signal	
Voltage Range	0 to ±10V	
Bandwidth	Up to 100kHz, Dependent on Sensor and Settings	

[1] Channel 2 can be used for a second photodiode based power meter sensor. Please refer to the following 4 pages.

Compatible With All Thorlabs' Sensors. Please Refer to the Following 4 Pages.

PM300 Benchtop Power Meter Without Sensor

ITEM#	$	£	€	RMB	DESCRIPTION
PM300	$ 1,800.00	£ 1,134.00	€ 1.674,00	¥ 17,190.00	Dual Channel Power Meter Console
PM300E	$ 2,200.00	£ 1,386.00	€ 2.046,00	¥ 21,010.00	Dual Channel Power and Energy Meter Console
CAL-PM300	$ 200.00	£ 126.00	€ 186,00	¥ 1,910.00	Calibration Service for the PM300 Series Consoles