Sunlight to Electricity

Precise Measurement of Energy Conversion for Complete System Efficiency

PCS

Power Conversion System

4 CH



GPM-8340 Digital Power Meter

* 4 Input Elements
* 5" TFT LCD
* Voltage/Current Test Freq. Bandwidth: DC, 0.1 Hz to 10 kHz
* Lowest Current Range 5 mA & 0.1 mW Watt Resolution
* Waveform Display : V (Voltage), I (Current), P (Wattage)
* Meeting IEC 61000-4-7 Harmonic Measurement (50/60Hz)
* Wiring Selecting Button (1P3W, 3P3W, 3P4W, 3V3A)
* Harmonic Measurement & Analysis up to 50 Orders
* Supports Inrush Current and Energy Measurement
* Provide External Current Sensor Input (EXT)
* Standard Interface1: RS-232C, USB Device/ Host, LAN
* Standard Interface2: mini GPIB + Digital I/O or CAN + Digital I/O (factory installed only)

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SPECIFICATIONS

Input Channel	4
Parameters	Vrms , Vmn, Vdc , Vac, Irms , Idc , Iac, P, VA, VAR, PF, CFI, CFV, DEG, IHz, VHz, V+pk, V-pk, I+pk, I-pk, P+pk, P-pk,THDI, THDV, MATH, MCR
VOLTAGE	
Range	15 V/30 V/60 V/150 V/300 V/600 V/1000 Vrms (CF=3), 7 range
Accuracy	DC, 0.1 Hz to 45 Hz : ± (0.1 % of reading + 0.2 % of range) 45 Hz to 66 Hz : ± (0.1 % of reading + 0.05 % of range) 66Hz to 1kHz : ± (0.1 % of reading + 0.2 % of range) 1kHz to 10kHz : ± (0.07 *f) % of reading + 0.3 % of range)
Harmonics Accuracy	10 Hz to 45 Hz : 0.15 % of reading + 0.35 % of range 45 Hz to 440 Hz : 0.15 % of reading + 0.35 % of range 440 Hz to 1.2 kHz : 0.2 % of reading+ 0.35 % of range
Input Resistance	4 MΩ
CURRENT	
Range	5 mA/20 mA/50 mA/200 mA/500 mA/2 A/5 A/20 Arms (CF=4), 8 range
Accuracy	DC, 0.1 Hz to 45 Hz : ± (0.1 % of reading + 0.2 % of range) 45 Hz to 66 Hz : ± (0.1 % of reading + 0.05 % of range) 66Hz to 1kHz : ± (0.1 % of reading + 0.2 % of range) 1kHz to 10kHz : ± (0.07 *f) % of reading + 0.3 % of range)
Harmonics Accuracy	10 Hz to 45 Hz : 0.15 % of reading + 0.35 % of range 45 Hz to 440 Hz : 0.15 % of reading + 0.35 % of range 440 Hz to 1.2 kHz : 0.2 % of reading+ 0.35 % of range
POWER SOURCE	
Range	75 mW to 20 kW (56 ranges)
Accuracy	DC : ± (0.1 % of reading + 0.2 % of range) 0.1 Hz to 45 Hz : ± (0.3 % of reading + 0.2 % of range) 45 Hz to 66 Hz : ± (0.1 % of reading + 0.05 % of range) 66 Hz to 1 kHz : ± (0.2 % of reading + 0.2 % of range) 1 kHz to 10 kHz : ± (0.1 % of reading + 0.3 % of range) ± [{0.067x(f-1)} % of reading]
FREQUENCY	
Range	0.1 Hz to 10 kHz
Accuracy	± (0.06 % of reading)
Frequency Source	Voltage or Current source selectable
OTHERS	
Display Resolution	5 Digits
Display Update Rate	0.1 s / 0.25 s / 0.5 s / 1 s / 2 s / 5 s / 10 s / 20 s
Interface1	RS-232C, USB host/device, LAN & mini GPIB+Signal IO
Interface2	RS-232C, USB host/device, LAN & CAN+Signal IO
Power Source	AC 100 V to 240 V, 50/60 Hz; Consumption: 140 VA
Dimension	220 mm(W) x 132 mm(H) x 444 mm(D)
Weight	5.24 kg

Specifications subject to change without notice. PM-8340CD1BH

ORDERING INFORMATION

GPM-8340 (with GPIB) Digital Power Meter (RS-232C/USB device & host/LAN/mini GPIB+IO)

GPM-8340 (with CAN) Digital Power Meter (RS-232C/USB device & host/LAN/CAN+IO)

ACCESSORIES

Power cord x 1, Safety guide x 1
Test lead GTL-209 x 4, Test lead GTL-212A x 4,
Signal IO cable GTL-214 x 1

OPTION ACCESSORIES

GCP-300 Current Probe (suitable for the external input, EXT2, connection)
GTL-209 Test Lead, Banana to Bare-wire, Approx. 1000 mm
GTL-212A Test Lead, O-Type to Bare-wire, Approx. 1000 mm
GTL-214 Signal IO Cable, Approx. 1000 mm
GTL-232 RS-232 Cable, 9 pin F-F type, null modem for computer, Approx. 2000 mm
GTL-246 USB Cable, A-B type, Approx. 1200 mm
GTL-258 GPIB Cable, 25-pin Micro-D connection, Approx. 1900 mm
GTL-266 Signal IO coverter cable, Approx. 1000 mm
GRA-452 Rack Mount Kit (19" 3U)


GPM-002


GTL-209


GTL-212A


GTL-214


GTL-266

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