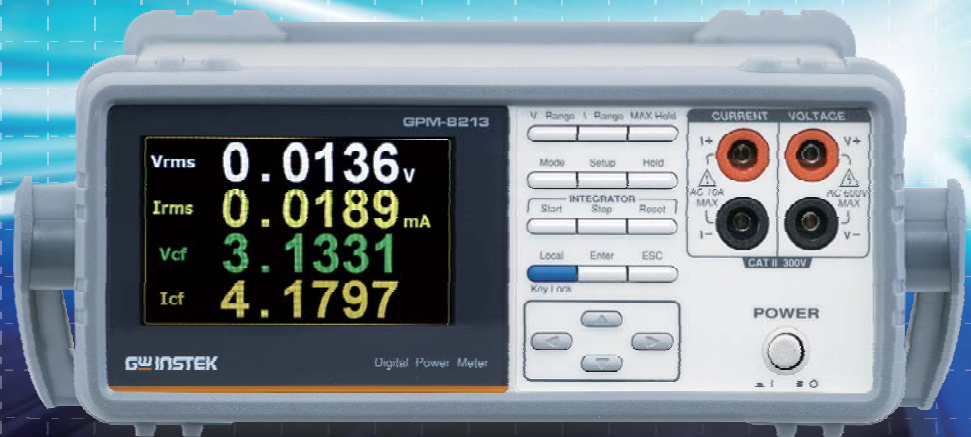


Time to Check Consumption



GPM-8213

Digital Power Meter



- 4" TFT LCD
- Basic Accuracy : $\pm(0.1\% \text{ of reading} + 0.1\% \text{ of range})$
- Two Data Display Modes
 - Standard Display : Displaying Two Major Measurement Items + Six Minor Measurement Items
 - Simple Display : Displaying Two Major Measurement Items
- Met the Requirement of IEC 62501 Power measurement
 - Voltage/Current Test Frequency Bandwidth : DC ~ 6kHz
 - Watt Resolution : 1mW
 - Current Resolution : 0.1μA
 - Current/Voltage Measurements Reach CF=3 for Distorted Wave and CF=6 for Half Range
 - W-h Power vs Time/A-h Current vs Time Integration Function
 - Total Harmonic Distortion Measurement
- Front Panel Test Terminal
- Standard Interfaces : RS-232C, USB Device, LAN
- Optional Test Fixture : GPM-001

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SPECIFICATIONS

MEASUREMENT CHARACTERISTICS		
INPUT		
ITEM RATING VOLTAGE	Voltage Current Current	Range
RATING CURRENT		600 Vrms
IMPEDANCE(50/60Hz)		20 Arms
		2.4 MΩ
		5mA~200mA:500 mΩ
MAXIMUM VOLTAGE		0.5A~20A: 5 mΩ
MAXIMUM CURRENT		700 Vrms
MAXIMUM COMMON MODE VOLTAGE		25 Arms
LOW PASS FILTER	Cutoff frequency	300 V
PARAMETERS		
ITEM MEASUREMENT	Voltage Current Power Crest Factor Power Factor Frequency Angle Total Harmonic Distortion Integration	Symbol Vdc, Vrms, V+pk, V-pk Idc, Irms, I+pk, I-pk P, P+pk, P-pk, VA, Var CFV, CFI PF VHz, IHz Deg THDV, THDI Time, WP, WP+, WP-, q, q+, q-
DISPLAY DIGITS		5 digits
FREQUENCY BANDWIDTH		DC, 45Hz~6kHz
AVERAGE		1, 2, 4, 8, 16, 32, 64
PT RATE		1 ~ 9999.999
CT RATE		1 ~ 9999.999
DISPLAY MODE	Standard Simple	8 measurement Item 4 measurement Item
VOLTAGE		
ITEM RANGE	CF=3 CF=6	Range 15V, 30V, 60V, 150V, 300V, 600V 7.5V, 15V, 30V, 75V, 150V, 300V 3 or 6 (selectable)
CREST FACTOR ACCURACY	Effective Range DC 45Hz ≤ f ≤ 66Hz 66Hz < f ≤ 1kHz 1kHz < f ≤ 6kHz Filter(ON) 5-18° C / 28-40° C	1% ~ 105% of range ±(0.2% of reading+0.2% of range) ±(0.1% of reading+0.1% of range) ±(0.1% of reading+0.2% of range) ±3% of reading Add 0.3% of reading@45Hz ~ 66Hz Add ±0.03% of reading/° C 0.5% of range
TEMPERATURE EFFECT RESIDUAL NOISE		

CURRENT		
ITEM MEASUREMENT	CF=3 CF=6	Range 5mA, 10mA, 20mA, 50mA, 100mA, 200mA, 500mA, 1A, 2A, 5A, 10A, 20A 2.5mA, 5mA, 10mA, 25mA, 50mA, 100mA, 250mA, 0.5A, 1A, 2.5A, 5A, 10A 3 or 6 (selectable)
CREST FACTOR ACCURACY	Effective Range DC 45Hz ≤ f ≤ 66Hz 66Hz < f ≤ 1kHz 1kHz < f ≤ 6kHz Filter(ON) 5-18° C/28-40° C	1% ~ 105% of range ±(0.2% of reading+0.2% of range) ±(0.1% of reading+0.1% of range) ±(0.1% of reading+0.2% of range) ±3% of reading Add 0.3% of reading@45Hz ~ 66Hz Add ±0.03% of reading/° C 0.5% of range
TEMPERATURE EFFECT RESIDUAL NOISE		
POWER		
ITEM ACCURACY	Effective Range DC 45Hz ≤ f ≤ 66Hz 66Hz < f ≤ 1kHz 1kHz < f ≤ 6kHz Filter(ON) 5-18° C/28-40° C	Range 1% ~ 110% of range ±(0.2% of reading+0.2% of range) ±(0.1% of reading+0.1% of range) ±(0.1% of reading+0.3% of range) ±3% of reading Add 3% of reading@45Hz~66Hz Add ±0.03% of reading/° C
TEMPERATURE EFFECT RESIDUAL NOISE		
FREQUENCY		
ITEM MEASUREMENT	Filter(ON) Filter(OFF)	Range 30.000 Hz~9.9999 kHz 30.000 Hz~499.99 Hz
PARAMETER EFFECTIVE RANGE ACCURACY		Voltage, Current 10%~105% of voltage input ±0.06% of reading
INTEGRATION		
ITEM INTERGRATION TIME	Accuracy Range Accuracy	Range ±(voltage or current accuracy+0.1% of reading) 0 hour 00 min ~ 9999 hour 59 min ±0.01%±1second
GENERAL INFORMATION		
DISPLAY STANDARD INTERFACE POWER SOURCE POWER CONSUMPTION DIMENSION & WEIGHT	4" TFT LCD RS-232C, USB device, LAN AC 100~240 V, 50-60Hz Max. 25VA 270(W) x 110(H) x 350(D) mm, Aapprox. 2.9kg	

ORDERING INFORMATION

GPM-8213 with GPIB	Digital Power Meter (RS-232C/USB device/LAN/Opt.01 GPIB)
GPM-8213	Digital Power Meter (RS-232C/USB device/LAN)

ACCESSORIES

Safety Sheet x 1, Power Cord x 1, Test Lead GTL-209 x 1
CD x 1 (User manual/ USB driver)

OPTION

Opt.01 GPIB card (factory installed)

OPTION ACCESSORIES

GPM-001	Test Fixture
GTL-232	RS-232 Cable, 9-pin Female to 9-pin, null Modem for Computer
GTL-246	USB Cable, A-B type, approx. 1200mm
GTL-248	GPIB Cable, approx. 2000mm
GTL-251	GPIB-USB-HS+ (high Speed)
GRA-422	Rack Adapter Panel (19", 2U)



GPM-001 Test Fixture

GPM-001 Test Fixture(EU)

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