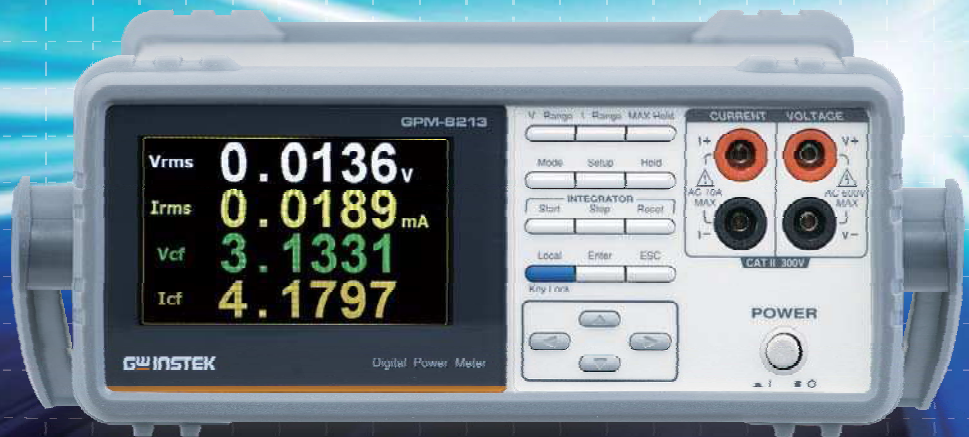


Time to Check Consumption



GPM-8213

Digital Power Meter



- 4" TFT LCD
- Basic Accuracy : +/- (0.1% of reading + 0.1% of range)
- Two Data Display Modes
 - Standard Display : Displaying Two Major Measurement Items + Six Minor Measurement Items
 - Simple Display : Displaying Test Data of Four Different Measurement Items
- Met the Requirement of IEC 62301 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



www.gwinstek.com

GW INSTEK
Simply Reliable

www.valuetronics.com

SPECIFICATIONS

MEASUREMENT CHARACTERISTICS		
INPUT		
ITEM RATING VOLTAGE RATING CURRENT IMPEDANCE(50/60Hz)	Voltage Current Current	Range 600 Vrms 20 Arms 2.4 MΩ 5mA~200mA:500 mΩ 0.5A~20A:5 mΩ
MAXIMUM VOLTAGE MAXIMUM CURRENT MAXIMUM COMMON MODE VOLTAGE LOW PASS FILTER	Cutoff frequency	500 Hz
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
DISPLAY DIGITS FREQUENCY BANDWIDTH AVERAGE PT RATE CT RATE DISPLAY MODE	Standard Simple	Time, WP, WP+, WP-, q, q+, q- 5 digits DC, 45Hz~6kHz 1, 2, 4, 8, 16, 32, 64 1 ~ 9999.999 1 ~ 9999.999 8 measurement Item 4 measurement Item
VOLTAGE		
ITEM RANGE CREST FACTOR ACCURACY	CF=3 CF=6 Effective Range DC 45Hz ≤ f ≤ 66Hz 66Hz < f ≤ 1kHz 1kHz < f ≤ 6kHz Filter(ON)	Range 15V, 30V, 60V, 150V, 300V, 600V 7.5V, 15V, 30V, 75V, 150V, 300V 3 or 6 (selectable) 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	5-18° C / 28-40° C	Add ±0.03% of reading/°C 0.5% of range

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)	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
TEMPERATURE EFFECT RESIDUAL NOISE	5-18° C/28-40° C	Add ±0.03% of reading/°C 0.5% of range
POWER		
ITEM ACCURACY	Effective Range DC 45Hz ≤ f ≤ 66Hz 66Hz < f ≤ 1kHz 1kHz < f ≤ 6kHz Filter(ON)	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
TEMPERATURE EFFECT FREQUENCY	5-18° C/28-40° C	Add ±0.03% of reading/°C
ITEM MEASUREMENT	Filter(ON) Filter(OFF)	Range 30.000 Hz~9.9999 kHz 30.000 Hz~499.99 Hz Voltage, Current
PARAMETER EFFECTIVE RANGE ACCURACY		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	4" TFT LCD
STANDARD INTERFACE	RS-232C, USB device, LAN
POWER SOURCE	AC 100~240 V, 50-60Hz
POWER CONSUMPTION	Max. 25VA
DIMENSION & WEIGHT	270(W) x 110(H) x 350(D) mm, Aapprox. 2.9kg

Specifications subject to change without notice. PM-8213CD1DH

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

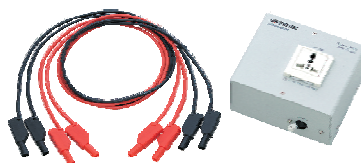
Safety Sheet x 1, Power Cord x 1, Test Lead GTL-209 x 1
CD x 1 (User manual/ USB driver)

OPTION

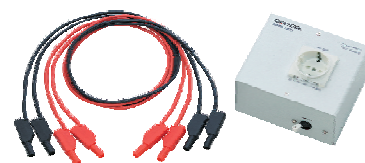
Opt.01 GPIB card (factory installed)

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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