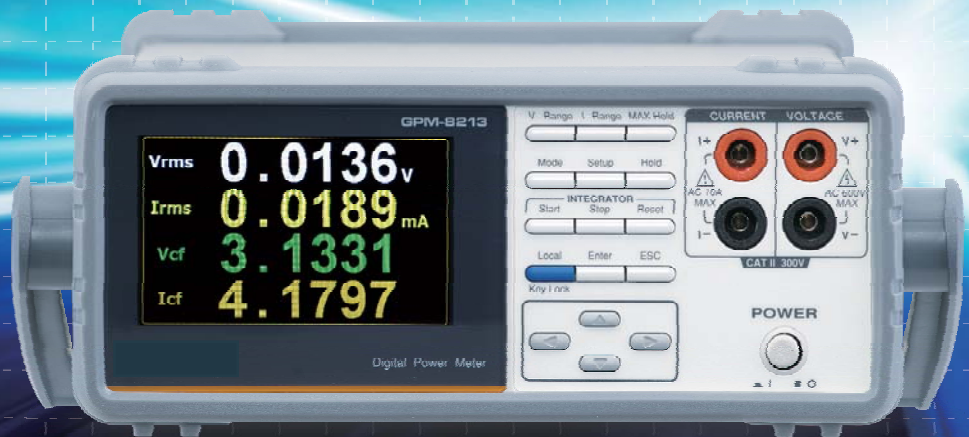


# Time to Check Consumption



## 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



## SPECIFICATIONS

MEASUREMENT CHARACTERISTICS		
<b>INPUT</b>		
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 700 Vrms 25 Arms 300 V
MAXIMUM VOLTAGE MAXIMUM CURRENT MAXIMUM COMMON MODE VOLTAGE LOW PASS FILTER	Cutoff frequency	500 Hz
<b>PARAMETERS</b>		
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
<b>VOLTAGE</b>		
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
TEMPERATURE EFFECT RESIDUAL NOISE	5-18° C / 28-40° C	Add ±0.03% of reading/° C 0.5% of range
<b>CURRENT</b>		
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
<b>POWER</b>		
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 RESIDUAL NOISE	5-18° C/28-40° C	Add ±0.03% of reading/° C
<b>FREQUENCY</b>		
ITEM MEASUREMENT	Filter(ON) Filter(OFF)	Range 30.000 Hz~499.99 Hz 30.000 Hz~9.9999 kHz
PARAMETER EFFECTIVE RANGE ACCURACY		Voltage, Current 10%~105% of voltage input ±0.06% of reading
<b>INTEGRATION</b>		
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
<b>GENERAL INFORMATION</b>		
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

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

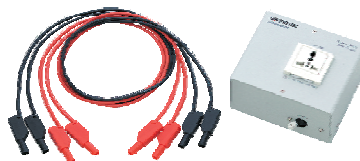
Safety Sheet x 1, Power Cord x 1, Test Lead GTL-209 x 1  
CD x 1 (User manual/ USB driver)

## OPTION

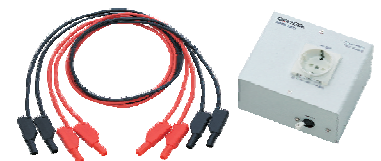
Opt.01 GPIB card (factory installed)

## 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)

Combined Test Solutions,  
4 Commerce Way, Stanbridge Road,  
Leighton Buzzard, LU7 4RW

T: 01525 374466  
E: [sales@ctstest.co.uk](mailto:sales@ctstest.co.uk)  
W: [www.ctstest.co.uk](http://www.ctstest.co.uk)

