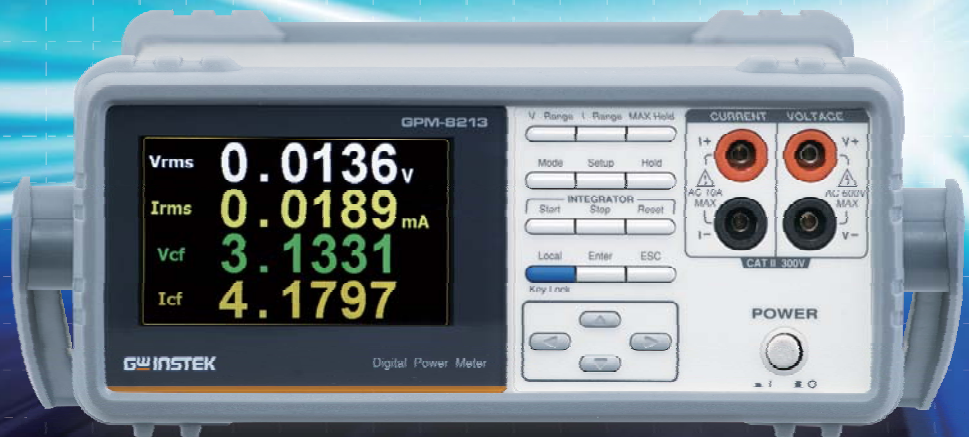


# Time to Check Consumption



## 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
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, CF I 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

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
<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 FREQUENCY	5-18° C/28-40° C	Add ±0.03% of reading/° C
ITEM MEASUREMENT	Filter(ON) Filter(OFF)	Range 30.000 Hz~499.99 Hz 30.000 Hz~9.9999 kHz Voltage, Current
PARAMETER EFFECTIVE RANGE ACCURACY		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

## 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-8213CD1DS

## 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 2  
CD x 1 (User manual/ USB driver)

## OPTION

Opt.01 GPIB card (factory installed)

## OPTION ACCESSORIES

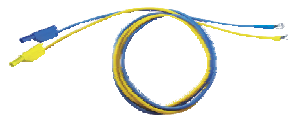
GPM-001	Test Fixture
GTL-232	RS-232 Cable, 9-pin Female to 9-pin, null Modem for Computer
GTL-246	USB Cable, A-B type, approx. 1200mm
GTL-248	GPIB Cable, approx. 2000mm
GTL-251	GPIB-USB-HS+ (high Speed)
GRA-422	Rack Adapter Panel (19", 2U)



GPM-001 Test Fixture



GPM-001(EU) Test Fixture



GTL-213 Test Lead



GTL-210 Test Lead

Global Headquarters

### GOOD WILL INSTRUMENT CO., LTD.

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan  
T +886-2-2268-0389 F +886-2-2268-0639  
E-mail: marketing@goodwill.com.tw

China Subsidiary

### GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.

No. 521, Zhujiang Road, Snd, Suzhou Jiangsu 215011 China  
T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary

### GOOD WILL INSTRUMENT (SEA) SDN. BHD.

No. 1-3-18, Elit Avenue, Jalan Mayang Pasir 3,  
11950 Bayan Baru, Penang, Malaysia  
T +604-6111122 F +604-6115225

Europe Subsidiary

### GOOD WILL INSTRUMENT EURO B.V.

De Run 5427A, 5504DG Veldhoven, THE NETHERLANDS  
T +31(0)40-2557790 F +31(0)40-2541194

U.S.A. Subsidiary

### INSTEK AMERICA CORP.

5198 Brooks Street Montclair, CA 91763, U.S.A.  
T +1-909-399-3535 F +1-909-399-0819

Japan Subsidiary

### TEXIO TECHNOLOGY CORPORATION.

7F Towa Fudosan Shin Yokohama Bldg., 2-18-13 Shin  
Yokohama, Kohoku-ku, Yokohama, Kanagawa,  
222-0033 Japan  
T +81-45-620-2305 F +81-45-534-7181

Korea Subsidiary

### GOOD WILL INSTRUMENT KOREA CO., LTD.

Room No.503, Gyeonginro 775 (Mullae-Dong 3Ga,  
Ace Hightech-City B/D 1Dong), Yeongduengpo-Gu,  
Seoul 150093, Korea.  
T +82-2-3439-2205 F +82-2-3439-2207

India Subsidiary

### GW INSTEK INDIA LLP.

No.2707/B&C, 1st Floor UNNATHI Building,  
E-Block, Sahakara Nagar, Bengaluru-560 092, India  
T +91-80-6811-0600 F +91-80-6811-0626

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