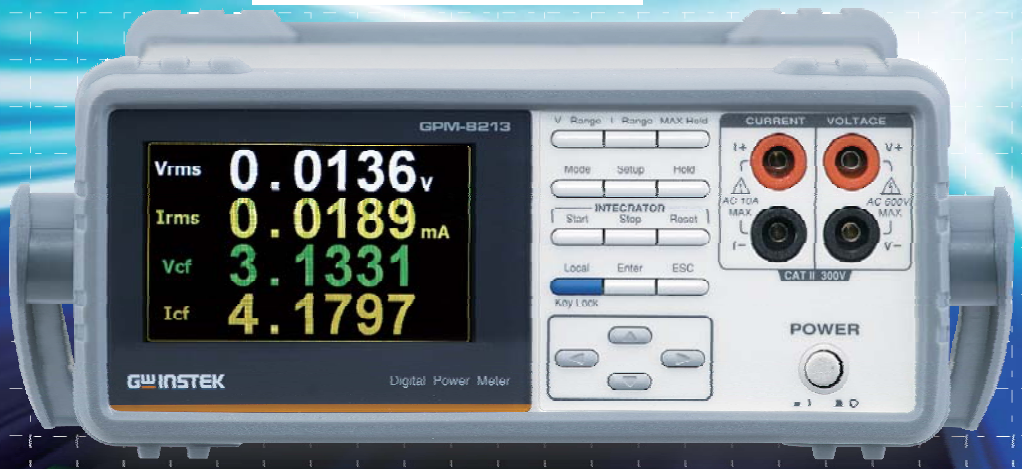
Time to Check Consumption

DIMELCO
La solution à votre mesure



GPM-8213

CE | USB Device | LAN | RS-232 | GPIB

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

SPECIFICATIONS

MEASUREMENT CHARACTERISTICS

INPUT

ITEM		Range
RATING VOLTAGE		600 Vrms
RATING CURRENT		20 Arms
IMPEDANCE(50/60Hz)	Voltage	2.4 MΩ
	Current	5mA~200mA : 500 mΩ
	Current	0.5A~20A : 5 mΩ
MAXIMUM VOLTAGE		700 Vrms
MAXIMUM CURRENT		25 Arms
MAXIMUM COMMON MODE VOLTAGE		300 V
LOW PASS FILTER	Cutoff frequency	500 Hz

PARAMETERS

ITEM		Symbol
MEASUREMENT	Voltage	Vdc, Vrms, V+pk, V-pk
	Current	Idc, Irms, I+pk, I-pk
	Power	P, P+pk, P-pk, VA, Var
	Crest Factor	CFV, CFI
	Power Factor	PF
	Frequency	VHz, IHz
	Angle	Deg
	Total Harmonic Distortion	THDV, THDI
	Integration	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	8 measurement Item
	Simple	4 measurement Item

VOLTAGE

ITEM		Range
RANGE	CF=3	15V, 30V, 60V, 150V, 300V, 600V
	CF=6	7.5V, 15V, 30V, 75V, 150V, 300V
CREST FACTOR		3 or 6 (selectable)
ACCURACY	Effective Range	1% ~ 105% of range
	DC	±(0.2% of reading+0.2% of range)
	45Hz ≦ f ≦ 66Hz	±(0.1% of reading+0.1% of range)
	66Hz < f ≦ 1kHz	±(0.1% of reading+0.2% of range)
	1kHz < f ≦ 6kHz	±3% of reading
	Filter(ON)	Add 0.3% of reading@45Hz ~ 66Hz
TEMPERATURE EFFECT	5-18° C / 28-40° C	Add ±0.03% of reading/° C
RESIDUAL NOISE		0.5% of range

CURRENT

ITEM		Range
MEASUREMENT	CF=3	5mA, 10mA, 20mA, 50mA, 100mA, 200mA, 500mA, 1A, 2A, 5A, 10A, 20A
	CF=6	2.5mA, 5mA, 10mA, 25mA, 50mA, 100mA, 250mA, 0.5A, 1A, 2.5A, 5A, 10A
CREST FACTOR		3 or 6 (selectable)
ACCURACY	Effective Range	1% ~ 105% of range
	DC	±(0.2% of reading+0.2% of range)
	45Hz≦f ≦66Hz	±(0.1% of reading+0.1% of range)
	66Hz < f ≦1kHz	±(0.1% of reading+0.2% of range)
	1kHz < f ≦6kHz	±3% of reading
	Filter(ON)	Add 0.3% of reading@45Hz ~ 66Hz
TEMPERATURE EFFECT	5-18° C/28-40° C	Add ±0.03% of reading/° C
RESIDUAL NOISE		0.5% of range

POWER

ITEM		Range
MEASUREMENT	Filter(ON)	30.000 Hz~9.9999 kHz
	Filter(OFF)	30.000 Hz~499.99 Hz
PARAMETER		Voltage, Current
EFFECTIVE RANGE		10%~105% of voltage input
ACCURACY		±0.06% of reading

FREQUENCY

ITEM		Range
MEASUREMENT	Filter(ON)	30.000 Hz~9.9999 kHz
	Filter(OFF)	30.000 Hz~499.99 Hz
PARAMETER		Voltage, Current
EFFECTIVE RANGE		10%~105% of voltage input
ACCURACY		±0.06% of reading

INTEGRATION

ITEM		Range
INTERGRATION	Accuracy	±(voltage or current accuracy+0.1% of reading)
TIME	Range	0 hour 00 min ~ 9999 hour 59 min
	Accuracy	±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

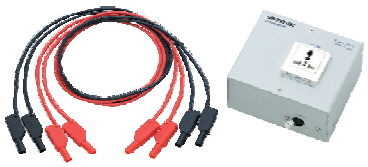
Safety Sheet x 1, Power Cord x 1, Test Lead GTL-209 x 1
CD x 1 (User manual/ USB driver)

OPTION

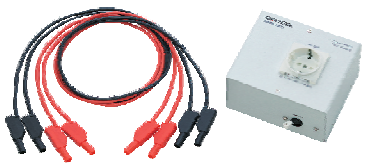
Opt.01 GPIB card (factory installed)

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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