



GPM-8213 Specifications

The specifications apply when warmed up for at least 30 minutes and operates under the slow rate & 18~28 °C.





(with optional GPIB)

Input

input			
Item :		Spec.	
Input voltage		600 Vrms	
Input current		20 Arms	
	Voltage	2.4ΜΩ	
Input impedance (50/60 Hz)	Current	5mA - 200mA	500mΩ
		0.5A - 20A	5mΩ
Maximum display voltage		700 Vrms	
Maximum display current		25 Arms	
Maximum allowable isolation voltage		300 V	
Low frequency filter Cut-off frequency		500 Hz	

Display

Synchronization frequency		45Hz∼ 6kHz
Refresh rate		10 times/sec
Average		1, 2, 4, 8, 16, 32, 64
Displayed made	Standard	8 items simultaneously.
Displayed mode	Simple	4 items simultaneously.
Displayed digits		5
Voltage converter	PT ratio	1 to 9999.999
Current converter	CT ratio	1 to 9999.999
	Voltage	Vdc, Vrms, V+pk, V-pk,
Measurement items	Current	ldc, 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 Dist.	THDV, THDI,
Integration	Time, WP, WP+ WP-, q, q+, q-

Voltage Measurement

Measurement range		CF=3:	15V, 30V, 60V, 150V, 300V, 600V
Measurement range		CF=6:	7.5V, 15V, 30V, 75V, 150V, 300V
Crest factor		3, 6	
	Effective range	1 % to 105 % of	range
DC		±(0.2 % reading	+ 0.2 % range)
A	45 Hz ≤ f ≤ 66 Hz	±(0.1 % reading	+ 0.1 % range)
	66 Hz < f ≤ 1kHz	±(0.1 % reading + 0.2 % range)	
	1 kHz < f ≤ 6kHz	± 3 % of range	
	The filter is ON	Increase 0.3 % re	eading@ 45Hz to 66Hz

GPM-8213_Spec_E_1

Temperature effect	5-18°C / 28-40°C	Increase ±0.03% reading / ° C
Residual noise		0.5 % of range

Current Measurement

	CF=3:	5mA, 10mA, 20mA, 50mA, 100mA, 200mA, 500mA, 1A, 2A, 5A, 10A, 20A
Measurement range	CF=6 :	2.5mA, 5mA, 10mA, 25mA, 50mA, 100mA, 250mA,
	Cr=b:	0.5A, 1A, 2.5A, 5A, 10A
Crest factor		3, 6
	Effective range	1 % to 105 % of range
Accuracy	DC	±(0.2 % reading + 0.2 % range)
	$45 \text{ Hz} \le f \le 66 \text{ Hz}$	±(0.1 % reading + 0.1 % range)
	66 Hz < f ≤ 1kHz	±(0.1 % reading + 0.2 % range)
	$1 \text{ kHz} < f \leq 6 \text{kHz}$	± 3 % of range
	The filter is ON	Increase 0.3 % reading@ 45Hz to 66Hz
Temperature effect	5-18°C / 28-40°C	Increase ±0.03% reading / °C
Residual noise		0.5 % of range

Power Measurement

	Effective range	1 % to 110 % of range
	DC	±(0.2 % reading + 0.2 % range)
	45 Hz ≤ f ≤ 66 Hz	±(0.1 % reading + 0.1 % range)
Accuracy	66 Hz < f ≤ 1kHz	±(0.1 % reading + 0.3 % range)
	1 kHz < f ≤ 6kHz	± 3 % of range
	The filter is ON	Increase 0.3 % reading@ 45Hz to 66Hz
Temperature effect	5-18°C / 28-40°C	Increase ±0.03% reading / °C

Frequency Measurement

	The filter is ON	30.000Hz to 499.99Hz
Measurement range	The filter is OFF	30.000Hz to 9.9999kHz
Measurement items		Voltage, Current

Effective input range	10% to 105% of voltage input range
Accuracy	±(0.06 % reading)

Integrator Measurement

Integrator	Accuracy	±(Accuracy of voltage or current+ 0.1 % reading)
	Range	0 hour 0 minute to 9999 hours 59 minutes
Time	Accuracy	±0.01% ±1second

General

Display	4" TFT LCD
Interfaces	Standard: RS-232C, USB device, LAN Optional: GPIB
Power Source	AC 100-240V, 50-60Hz
Power Consumption	25VA max.
Dimensions & Weight	270(W) x 110(H) x 350(D) mm, Approx. 2.9kg