

Digital Clamp Meters



GPS-270: 1000A DC/800A AC True-RMS Clamp Meter

GPS-270



GPS-210: 2000A AC True-RMS Clamp Meter

GPS-210

• A High Quality DC & AC Current Clamp-on

Plus 30ms MaxHold to Capture In-Rush Currents and Full Industrial Features For Serious Users

Functions & Features:

- Versatile & handy
- DC1000A/AC800A Clamp-on + full multimeter ranges
- 50mm Large jaws opening
- Fully auto-ranging on all functions for ease of use
- 4000 counts high resolution; fast measurements
- 600VAC/DC input protection on all functions
- AC True RMS voltage and current functions
- Back light display
- 30ms Max HOLD to capture in-rush currents
- Data Hold
- Relative zero feature
- DCV 0.1mV to 600V
- ACV 0.1mV to 600V
- DCA 0.1A to 1000A non-invasive current measurements
- ACA 0.1 to 800A non-invasive current measurements
- Ohm 0.1Ω to 40.00 MΩ
- Capacitance 0.01nF to 3000μF
- Fast audible continuity
- Diode test
- Battery cover with probe holders
- Rugged fire retarded casing; soft carrying pouch
- Transient protection 6.5KV 1.2/50μs lightning surge
- LVD EN61010-2-032 CAT III 600V
- EMC EN61326(97/98A1)/EN61000-4-2(95)/EN61000-4-3(96)

• A Smart & Versatile Tool For Electricians

AutoCheck, Ghost-Voltage-Buster & EF-Detection Feature

- Versatile & handy
- 2000A AC Clamp-on + full multimeter ranges
- 45mm Large jaws opening
- Fully auto-ranging on all functions for ease of use
- 6000 counts high resolution; fast measurements
- 600VAC/DC input protection on all functions
- AC True RMS voltage and current functions
- Back light display
- Autocheck feature (automatic DCV, ACV, & Ohms selection)
- Data Hold
- Lo-Z Volts to drain ghost voltages (Auto-VΩ position)
- Non-contact EF-Detection (NCV)
- Probe-contact EF-Detection for more precise induction of live
- High voltage frequency with auto-ranging trigger levels
- Overload-Alert On > 600VAC/DC (Beeps & OL indication)
- DCV & ACV 0.001V to 600.0V
- ACA 0.1A to 2000A non-invasive current measurements
- Capacitance 0.1nF to 2000μF
- Ohm 0.1Ω to 6.00 MΩ
- Diode test
- Fast audible continuity
- Battery cover with probe holders
- Rugged fire retarded casing; soft carrying pouch
- Transient protection 6.5KV 1.2/50μs lightning surge
- LVD EN61010-2-032 CAT III 600V
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GENERAL SPECIFICATION

- Display: 3 5/6 digits 6000 counts (GPS-210)
3 3/4 digits 4000 counts (GPS-270)
- Update Rate: 5 per second nominal (GPS-210)
3 per second nominal (GPS-270)
- Polarity: Automatic
Operation Temperature: 0°C ~ 40°C
Relative Humidity: Max. 80%
- Altitude: Operation below 2000m
- Storage temperature: -20°C ~ 60°C, < 80%RH.
- Temperature Coefficient : nominal 0.15 x (specified accuracy)/°C
@(0°C -18°C or 28°C -40°C), or otherwise specified
- Sensing: True RMS sensing for both model
- Safety : meets IEC61010-2-032 category III 600 volts AC & DC
- Transient protection : 6.5KV (L2/50s surge)
- Pollution Degree : 2
- E.M.C. : Meets EN61326(1997, 1998/A1), EN61000-4-2(1995), and EN61000-4-3(1996)
In an RF field of 3V/m:
Capacitance function is not specified.
Total accuracy = specified accuracy + 45 digits
Performance above 3V/m is not specified
- Overload Protections :
AC 2000A (GPS-210) RMS and DC 1000A or AC 800A
(GPS-270) continuous + & COM Terminals (all functions) : 600Vdc/Vac RMS
- Low Battery : Below approx. 2.4V
- Power Supply: Standard 1.5V AAA Size battery x 2
- Power Consumption: GPS-210: 2.8mA Typical
GPS-270: 11mA for DCA/ACA and 2.9mA for other functions
- APO Timing : Idle for 3 minutes (GPS-210)
Idle for 30 minutes (GPS-270)
- Dimension : L224mm x W78mm x H40mm
- Weight : 220 gm (GPS-210) , 290gm(GPS-270)
- Accessories : test leads (pair), batteries installed, user's manual, & soft carrying pouch

ELECTRICAL SPECIFICATION

Accuracy is ±(% reading digits + number of digits) or otherwise specified, at 23 °C ±5 °C & less than 75% R.H.

	GPS-270					GPS-210		
DC Voltage								
Range	400.0mV	4.000V	40.00V	400.0V	600V	6.000V	60.00V	600.0V
Accuracy	0.3%+3d	0.5%+3d	0.5%+3d	0.5%+3d	1.0%+4d	0.5%+3d	1.0%+5d	2.0%+5d
AC Voltage								
Range(50/60Hz)	400.0mV	4.000V	40.00V	400.0V	600V	6.000V	60.00V	600.0V
Accuracy	4.0%+4d	1.0%+4d	1.0%+4d	1.0%+4d	2.0%+4d	1.5%+5d	1.5%+5d	2.0%+5d
ACA Current								
Range	400.0 A , 800A					400.0A , 2000A		
Accuracy	15HZ~40HZ(2.0%+4d),40Hz~400Hz(1.5%+5d),400HZ~1KHZ(2.0%+5d)					1.5%+5d		
DCA Current								
Range	400.0 A , 1000A					-----		
Accuracy	0-400A(1.5%+4d)/400-800A(2.0%+5d)/800-900A(2.0%+5d)/900-1000A(5.0%+30d)					-----		
ohm	Audible Continuity Tester: Threshold between 10Ω to 120Ω					Audible Continuity Tester: Threshold between 10Ω to 300Ω		
range	400.0Ω	4.000KΩ	40.00KΩ	400.0KΩ	4.000MΩ	40.00MΩ	400.0MΩ	4.000MΩ
accuracy	0.8%+6d	0.6%+4d	0.6%+4d	0.6%+4d	1.0%+4d	2.0%+4d	2.0%+8d	1.2%+6d
Capacitance								
Range	50.00nF	500.0nF	5.000μF	50.00μF	500.0μF	3000μF	100.0nF	1000nF
Accuracy	Not Specified	3.5%+6d	3.5%+6d	3.5%+6d	3.5%+6d	3.5%+6d	3.5%+5d	3.5%+5d
Frequency								
Range	-----					10~30KHZ		
Voltage Range						10HZ~1KHZ		
Sensitivity						10HZ~1KHZ		
Diode Tester								
Open Circuit Voltage	< 1.6VDC					Audible Threshold: between 0.015V and 0.080V		
Test current	0.4mA					< 1.6VDC		
NCV								
Non-contact						15V to 85V		
EF-Detection						-		
Typical Voltage						40V to 130V		
Bar Indication						---		
						60V to 210V		

						90V to 300V		

						above 120V		

• General Polytronic Systems Ltd
 14 Regents St. London, NW10 5LG, UK
 Tel: +44 20 8964 3600
 Email: sales@gpslimited.com
 Web: www.gpslimited.com