



GPS-210

2000 A AC True RMS Clamp Meter



It Tells You What You Are Holding.

A 2000 A AC clamp with a full multimeter behind it, built around AutoCheck. Put the probes on anything and the meter decides for itself whether it is looking at DC volts, AC volts or resistance, and displays it. There is no function to select and nothing to get wrong, which on a live board is the point.

AutoCheck runs at low impedance, around 1.6 k Ω rising to a few hundred k Ω at mains voltage. That drains the ghost voltages induced in parallel runs, so an unterminated wire reads as dead instead of showing a phantom 80 V. Switch to the high impedance position when the circuit is load sensitive.

Electric field detection works two ways: an antenna in the jaw tip for tracing live wiring without contact, and the red probe for confirming a single conductor. Add true RMS on AC voltage and current, 6.5 kV transient protection and a 6000-count backlit display, and it covers most of what an electrician carries.

KEY FEATURES

- 2000 A AC · 45 mm jaw · true RMS
- AutoCheck: DC V, AC V and Ω selected for you
- Ghost Voltage Buster drains stray voltage
- EF-detection, non-contact and probe-contact
- 6000-count backlit display, fully auto-ranging
- 6.5 kV transient protection · CAT III 600 V

IDEAL FOR

- Electrical contracting and installation testing
- Fault finding on live distribution boards
- Tracing live wiring and locating breaks
- Utilities and industrial service work
- High-current work up to 2000 A AC

TECHNICAL SPECIFICATIONS

Range	Condition	Accuracy
DC voltage · high impedance 5 MΩ		
6.000 V		0.5% + 3 digits
60.00 V		1.0% + 5 digits
600.0 V		2.0% + 5 digits
AC voltage, true RMS		
6.000 V / 60.00 V	50/60 Hz	1.5% + 5 digits
600.0 V	50/60 Hz	2.0% + 5 digits
6.000 V / 60.00 V	50 Hz to 500 Hz	2.0% + 5 digits
600.0 V	50 Hz to 500 Hz	2.5% + 5 digits
AC current, true RMS · clamp jaws · best resolution 0.1 A		
400.0 A / 2000 A	50/60 Hz	1.5% + 5 digits
Resistance · AutoCheck, four auto-ranges		
6.000 kΩ		1.2% + 6 digits
60.00 kΩ / 600.0 kΩ		1.0% + 4 digits
6.000 MΩ		2.0% + 4 digits
600.0 Ω with continuity beeper		2.0% + 8 digits
Capacitance · five auto-ranges, 600 V protected		
100.0 nF / 1000 nF / 10.00 μF / 100.0 μF / 2000 μF		3.5% + 5 digits
Frequency · via test leads · 0.5% + 4 digits, 9999 counts		
6.000 V range	10 Hz to 30 kHz	Sensitivity 4 V sine RMS
60.00 V range	10 Hz to 1 kHz	Sensitivity 30 V sine RMS
600.0 V range	10 Hz to 1 kHz	Sensitivity 60 V sine RMS
Non-contact EF-detection · antenna at the jaw tip		
15 V to 85 V		Bar graph -
40 V to 130 V		Bar graph --
60 V to 210 V		Bar graph ---
90 V to 300 V		Bar graph ----
Above 120 V		Bar graph -----
Diode test		
Open circuit below 1.6 V DC		Test current 0.4 mA typical

Accuracy is ±(% of reading + digits) at 23 ±5 °C, relative humidity below 75%. AC figures are specified from 5% to 100% of range. Add 1% within the jaw marking lines, 4% beyond them.



WHAT'S IN THE BOX

- GPS-210 clamp meter, Test leads, Two 1.5 V AAA batteries, fitted, Soft carrying pouch, User manual
- PROBE HOLDERS** · Built into the case, so the leads stow with the instrument

GENERAL SPECIFICATIONS

Code	Item	Part Number
GPS-210	2000 A AC true RMS AutoCheck clamp meter, 45 mm jaw	451020

DISPLAY

3-5/6 digits, 6000 counts, backlit · 5 readings per second · frequency to 9999 counts

SAFETY

EN 61010-2-032 · CAT III 600 V AC and DC · double insulated · pollution degree 2 · CE

OVERLOAD PROTECTION

Jaws 2000 A rms continuous · terminals 600 V DC and AC rms on all functions · overload alert above 600 V

POWER

2 × 1.5 V AAA · 2.8 mA typical · auto power off after 3 minutes · low battery below 2.4 V

DIMENSIONS · WEIGHT

224 × 78 × 40 mm (l × w × h) · 220 g · rugged fire-retardant casing

SENSING

True RMS on AC voltage and AC current · automatic ranging on every function

TRANSIENT PROTECTION

6.5 kV, 1.2/50 μs lightning surge

EMC

EN 61326 (1997, 1998/A1) · EN 61000-4-2 (1995) · EN 61000-4-3 (1996)

ENVIRONMENT

Operating 0 to 40 °C · storage -20 to 60 °C · below 2000 m

WARRANTY

1 year, subject to product registration with GPS LTD · service and calibration available