

Data sheet

IPM 138

Clamp Meter

FEATURE:

- 6000 count digital display
- Backlit, large scale display
- Power and Power factor measurement
- Total harmonic distortion measurement
- Phase rotation indication
- AC + DC True RMS reading
- Auto AC/DC detection
- AC/DC 600A capability
- AC 750V, DC 1000V capability
- Power 450K Watt capability
- 20K Ω Ohms Resistance capability
- Continuity beeper
- Display hold
- Peak hold
- Inrush current measurement
- DCA Auto-Zeroing key
- Min/Max function
- Frequency counter
- Temperature measurement
- Auto power off
- Up to 35mm Dia. (750 MCM) conductor
- 4 feet drop proof
- Hand guard & stream line designed
- Deluxe carrying case
- Convenient battery door
- CAT.III 600V/CAT.II 1000V Safety standard

SPECIFICATION:(All at 23°C \pm 5°C, \leq 80% R.H.)

DC/AC Voltage

Range	Input Impedance	Accuracy
60V, 600V, 1000V DC	$\geq 1M\Omega$	$\pm(0.7\%+2\text{dgt})$
60V, 600V, 750V AC	3M Ω // < 100pF	$\pm(1\%+5\text{dgt})$ 50Hz~500Hz

Resolution: 10mV

Overload Protection: 1000V rms

Conversion Type: Average sensing AC+DC True-RMS indicating

AC + DC V rms Accuracy: Same as ACV + 1.00% + 5dgt

DC/AC Current

Range	DC Accuracy	AC Accuracy
600A	±(1.5%+5dgt)	±(1.5%+5dgt) 45Hz~65Hz ±(2.5%+5dgt) 66Hz~400Hz

Resolution: 0.1A

Conversion Type: Average sensing True-RMS indicating

Overload Protection: 600A rms

AC + DC A rms Accuracy: Same as ACA + 1.5% + 5dgt

Watt

Range	Accuracy
4KW~600KW	Add the errors of Voltage and current

Resolution: 1W

Overload Protection: 1000V/600A rms

Power Factor

Range	Accuracy
-1.00~1.00	±3°

Overload Protection: 1000V/600A rms

Resistance

Range	Accuracy
600Ω, 6Ω, 20KΩ	±(1%+5dgt)

Overload Protection: 600V rms

Resolution: 0.1Ω

Open Circuit Voltage: 2.4V max

Continuity

Continuity Tester: <30Ω approx.

Indicator: 2KHz tone buzzer

Diode

Open Circuit Voltage: 3V max

Frequency

Range	Accuracy	Resolution
20Hz~4KHz	±(0.1%+5dgt)	0.1Hz

Sensitivity: 5A rms fpr ACA (A~)(>400Hz Unspecified)

5V rms to 110V rms for ACV(V~)

Overload Protection: 1000V/600A rms


Temperature

Range	Accuracy
-50°C~1100°C	±(1%+3°C)
-122°F~1832°F	±(1%+6°F)

Resolution: 0.1°C/1°F

Overload Protection: 600V rms

General

Sampling Rate:	3 times/sec
Overload Indication:	"OL" or "OL"
Low Battery Indication:	

Auto Power Off:	Approx. 10 minutes after last operation
Operating Temperature:	0°C~30°C (≤80% R.H.), 30°C~40°C (≤75% R.H.), 40°C~50°C (≤45% R.H.)
Storage Temperature:	-20°C~60°C
Temperature Coefficient:	0.2×(spec. Acc'y)/°C <18°C, >28°C
Safety:	IEC 61010-1: CAT.III 600V, CAT.II 1000V
Maximum Conduct Size:	35mm dia.
Maximum Jaw Opening:	45mm dia.
Maximum Busbar Size:	40×15mm
Power Requirement:	Single 9V battery (NEDA 1604 or IEC 6F22)
Battery Life:	50 hours(Alkaline)
Size:	78mm(W)×235mm(L)×51mm(H)
Weight:	380g with holster
Accessories:	Battery (installed), Test Leads, Temp. Adaptor, Beep Probe, Carrying Case and User Manual