DPM1000
Power clamp



- AC/DC Voltage to 1000 V
- AC/DC Current to 1000 A
- True RMS
- Resistance 100 kΩ
- LCD Display
- Phase rotation indication
- Inrush peak current
- Auto backlight display
- Frequency measurement
- Capacitance measurement
- Power Factor Measurement
- Watt measurement to 1 MW
- Harmonic measurement
- Harmonic distortion
- Diode test
- Non-contact volt alert
- Continuity Beeper
- Data Hold/Min-Max/Peak Hold
- Bright LED torch
- Temperature to 1000 ° C
- Carrying holster/pouch
- CAT IV 600 V Rating
- Bluetooth/Megger Link™ APP
- Supplied with carry case

DESCRIPTION

The new Megger DPM1000 Power Clamp meter combines the functionality of power meter, harmonics meter and data logger in one easy to use package. The design meets the requirements of BSEN 61010-1 CAT IV 600 V for supply side applications. A large backlit LCD clearly displays all measurements that turns on at the touch of a button or when rotating the selection dial. It also automatically switched off to save battery consumption.

The DPM1000 can measure DC, AC, pulsed and mixed currents up to 1000 A simply by clamping the jaws around the appropriate conductor, whilst voltages up to 1000 V AC or DC may be measured by the supplied test leads, Where power measurements are to be made both techniques above are performed simultaneously. All power related parameters including energy consumption, frequency, total harmonic distortion, distortion factor and capacitance. It features auto-ranging and has 3 phase rotation indication.

The DPM1000 measures Single and 3 phase active power and power factor, the harmonic content of the signal, up to the 25th harmonic can be displayed. Temperature measurements can be made up 1000 °C using the thermocouple provided.

The DCM1000 is ideally suited to measuring mains power quality and applications in the development, installation, maintenance and repair of equipment and devices used in power electronics and power engineering. The unit has an internal torch that lights during the operation of the clamp and automatic non-contact voltage detection for identification of live circuits.

The DPM 1000 may be used to perform data logging to its internal non-volatile memory. You can record a maximum of 9999 readings/records to the memory over a period of time and download the data to produce graphs and reports. The record rate can be set from 1 sec to 600 sec. The accuracy of the timer is within 3 seconds per hour.

The meter uses low-power Bluetooth v4.0 wireless technology to transfer real-time data to the free Megger Link™ app, available for both iOS and Android. The maximum communication range in open air is approximately 10 m. This function is invalid for Inrush and Phase Rotation.

The DPM1000 is supplied complete with test leads and Thermocouple Probe in full sized Carry case.

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SPECIFICATIONS

ACA Range 100 A – 1000 A
- Resolution 0.01 A
- Basic Accuracy ± (1.5% +5d) at 50-500 Hz
- Conversion Type AC+DC True-RMS

ACV Range 100 V~1000 V
- Resolution 0.01 V
- Basic Accuracy ± (1.5%+5d) at 50 Hz~500 Hz
- Input Impedance 3.5 MΩ
- Overload Protection: 1000 V rms

DCA Range 100 A – 1000 A
- Resolution 0.01 A
- Basic Accuracy ± (1.5% +5d)

DCV Range 100 V~1000 V
- Resolution 0.01 V
- Basic Accuracy ± (0.7%+2d)
- Input Impedance 3.5 MΩ
- Overload Protection: 1000 V rms

AC+DCV Range: 100 V~1000 V
- Resolution 0.01 V
- Basic Accuracy ± (1.7%+7d)
- Input Impedance 3.5 MΩ
- Overload Protection: 1000 V rms

Watt: 10 KW~1 MW
- Resolution 1 W

Power Factor: -1.00 ~ 1.00
- Resolution 0.01
- Basic Accuracy ± 5d

T.H.D: 0.1% ~100%
- Resolution 0.1%
- Basic Accuracy ± (3.0%+10d)

Harmonics: 0.1% ~100%
- Resolution 0.1%
- Basic Accuracy ± (5.0%+10d) For order 1-12
  ± (10.0%+10d) For order 13-25

Resistance 1 kΩ – 100 kΩ
- Resolution 0.01 Ω
- Basic Accuracy ± (1.0% + 5dgt)
- Overload Protection: 1000V rms

Continuity Beeper: <30 Ω, 2 KHz tone buzzer

Diode Test:
- Open Circuit Voltage ± 1.8 V max

Capacitance 4 µF – 4000 µF
- Resolution 1 nF
- Basic Accuracy ± (1.9%+8d)
- Overload Protection: 1000 V rms

Frequency Counter 20.00 Hz ~ 10.00 KHz
- Resolution 0.01 Hz
- Accuracy ± 0.5%+3d

Temperature -50°C ~1000°C
- Resolution 0.1°C
- Accuracy ± (1.0%+3°C)
- Overload Protection: 1000 V rms

Sampling Rate 3 times/sec

Overload Indication "OL" or "-OL"

Low Battery Indication

Auto Power Off 15 Minutes

Operating Temperature 0°C~50°C, ≦80% RH

Storage Temperature - 10°C ~ 50°C

Temperature Coefficient 0.2 x (Spec. Acc)/°C, <18°C or >28°C

International Standard IEC/EN 61243-3:2014

Safety Standard: IEC 61010-1, Designed to meet UL61010 Spec CAT IV 600V, CAT III 1000 V

Maximum Conductor Size 40 mm

Maximum Busbar Size 61 x 12mm

Power Requirement AAA Size Battery 1.5V x 6

Battery Life in hours: 50

Size 103 mm(W) x 258 mm (L) x 55 mm(H)

Weight: (with battery) 600 g

Specification subject to change without notice

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ORDERING INFORMATION

Description	Part number
DPM1000 power clamp meter	**1013-356**
Included accessories	
DCM 4 mm Spare Lead Set	1013-358
TP100 K-Type Thermocouple Probe	1013-364
Hard Carry Case	

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