DCM1500S
Solar clamp meter



- Industrial, HVAC and Solar PV Application
- 2000 V DC
- TRMS 1500 V AC
- 1500 A AC/DC
- Smart Hold
- Auto Ranging
- MIN/MAX Hold
- Inrush Current measurement (100 ms)
- Megger Link app compatible
- CAT IV 600 V / CAT III 1000 V
- Data logger
- PV test leads

DESCRIPTION

Measuring up to 2000 V DC and 1500 V AC (using the PVHV Leads), as well as 1500 A AC or DC, the DCM1500S is ideal for use in the installation, maintenance, monitoring and testing of photovoltaic systems as well standard AC or DC electrical equipment.

The meter comes with both standard 4 mm leads as well as the new PVHV1 (4 mm) and PVHV2 (PV) HV lead sets. It has a large clear backlit display and an automatic torch in the jaw to assist use in poorly lit areas.

Free Megger Link App, for remotely monitoring data from the DCM1500S built-in Bluetooth®. This will give a live trend graph and offer the ability to sample and log the values for later analysis.

The smart data-hold expands the standard hold function by giving the operator an audible warning if the "held" reading increases above 50 counts. Min/Max hold provides the ability to measure the maximum and minimum values over a period, with each value selectable in turn.

Other features include a High Frequency Rejection Filter, inrush current measurement, internal data logging, a non-contact volt seek mode and manual DC Amp zeroing.

In addition to voltage and current measurement the DCM1500S can measure resistance, diode, capacitance, temperature, and Frequency along with logging and Bluetooth application for reporting and offline fault finding.

The DCM1500S is safety rated to IEC 61010-1 and IEC/EN61010-2-033 CAT IV 600 V, and CAT III 1000 V

APPLICATION

The DCM1500S designed for industrial, HVAC and solar PV application where, there is a need for high voltage clamp meter that can measure current, volts, resistance, and frequency. Ideal for use while installing, maintaining, fault-finding or monitoring systems.

The tactile barrier below the jaws of the instrument ensures a safe working distance for the operator's hand when measuring current on live uninsulated conductors, user must still adhere to personal protection regulations and rules for the environment.

Monitor with the Smart Hold which allows increases in measurements to be with an audible tone.

The Max/Min and In-rush modes enable maximum load currents from equipment enabling users to detect start-up currents on motors and heaters.

The DC current measurement is ideal for application that include battery monitoring, automotive, charging and load circuits, electric vehicle servicing, lift maintenance, UPS commissioning, servicing and maintenance, electro-plating plants and welding equipment servicing as well as domestic power generation from solar panels and wind-turbines.

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ADDITIONAL FEATURES

- 6,000 counts digital display
- Large white LED backlit display
- True RMS reading on ACA/ACV
- AC/DC µA Range
- Resistance, Diode, Capacitance and Frequency measurement
- °C/°F temperature function
- Inrush current
- DCA ZERO
- Torch light on trigger push
- Data Logging up to 4000 records
- Manual save mode
- Auto Power off
- DC mV Range
- Torch
- Non contact Voltage detection

SPECIFICATIONS

DC mV

Range	OL Reading	Resolution	Accuracy
600.0 mV	660.0 mV	0.1 mV	± (0.7% + 5D)

DC Voltage

Range	OL Reading	Resolution	Accuracy
600.0 V	660.0 V	0.1 V	± (0.7% + 2D)
1000 V	1100 V	1 V	

AC Voltage

Range	OL Reading	Resolution	Accuracy
600.0 V	660.0 V	0.1 V	± (1.0% + 5D)
1000 V	1100 V	1 V	

PV DC Voltage (using PVHV1 or PVHV2 lead set)

Range	OL Reading	Resolution	Accuracy
600.0 V	660.0 V	0.1 V	± (2.0% + 5D)
2000 V	2200 V	1 V	

PV AC Voltage (using PVHV1 or PVHV2 lead set)

Range	OL Reading	Resolution	Accuracy
600.0 V	660.0 V	0.1 V	± (2.0% + 5D)
1500 V	1600 V	1 V	

AC/DC µA

Range	OL Reading	Resolution	Accuracy
400.0 µA	440.0 µA	0.1 µA	± (1.0% + 3D)
4000 µA	4400 µA	1 µA	

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AC/DC Current

Range	OL Reading	Resolution	Accuracy
60.00 A	66.00 A	0.01 A	± (2.0% + 5D)
600.0 A	660.0 A	0.1 A	
1500 A	1550 A	1 A	

Frequency

Range	OL Reading	Resolution	Accuracy
100.00 Hz	100.00 Hz	0.01 Hz	± (0.3% + 3D)
1000.0 Hz	1000.0 Hz	0.1 Hz	
10.000 kHz	10.000 kHz	0.001 kHz	

Resistance

Range	OL Reading	Resolution	Accuracy
600.0 Ω	660.0 Ω	0.1 Ω	± (0.9% + 5D)
6.000 kΩ	6.600 kΩ	0.001 kΩ	± (0.9% + 2D)
60.00 kΩ	66.00 kΩ	0.01 kΩ	
600.0 kΩ	660.0 kΩ	0.1 kΩ	

Continuity

Built-in buzzer sounds when measured resistance is less than 20 Ω and the sound is off when measured resistance is more than 200 Ω, between 20 Ω to 200 Ω the buzzer may be either on or off.

Diode

Range	OL Reading	Resolution	Accuracy
1.500 V	1.550 V	0.001 V	± (0.9% + 2D)

Capacitance

Range	OL Reading	Resolution	Accuracy
100.0 µF	110.0 µF	0.1 µF	± (1.9% + 2D)
1000 µF	1100 µF	1 µF	

VoltSeek

Voltage Range of High Sensitivity :

80 V ~ 1000 V
(At the top edge of the jaw)

Voltage Range of Low Sensitivity :

160 V ~ 1000 V
(At the top edge of the jaw)

Temperature

Range	OL Reading	Resolution	Accuracy
-40.0 °C – 400.0 °C	440.0 °C	0.1 °C	± (1% + 20D)
-40.0 °F – 752.0 °F	824.0 °F	0.1 °F	± (1% + 36D)

The accuracy does not include the accuracy of the thermocouple probe.
Accuracy specification assumes surrounding temperature stable to ±1 °C.
For surrounding temperature changes of ± 2 °C rated accuracy applies after 2 hours.

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Operating Temperature:	-10 °C to 50 °C
Storage Temperature:	-20°C to 60°C , 0 to 80% R.H. (batteries not fitted)
Altitude:	6561.7 ft (2000 m)
Data logging:	4000
Jaw size:	37 mm
Dimensions:	62x240x41 mm
Weight:	430 g
Batteries:	2 x AA (IEC LR6) 1,5V
Battery Life:	~200 hours ALKALINE Battery (without Backlight)
Standards:	EC 61010-1, IEC/EN61010-2-033
EMC:	IEC 61326-1: Portable Electromagnetic Environment,
CISPR 11:	Group 1, Class A, IEC 61326-2-2
Safety rating:	CAT 0 1500 V AC, 2000 V DC
	CAT II 1000 V AC, 1500 V DC
	CAT III 1000 V, CAT IV 600 V
IP Rating:	IP40 (waterproof and dust-proof)

Accessories included: Standard test leads, PV test leads, termocouple and Hard Carry Case

ORDERING INFORMATION

Description	Part No:
DCM1500S	1013-357
Included Accessories	
DCM 4mm Lead Set (Inc. Probes and Crocodile Clips)	1013-358
TP100 K-Type Thermocouple Probe	1013-364
PVHV1 Lead (4 mm Plugs)	1013-362
PVHV2 Lead (PV Plugs)	1013-363

Description	Part No:
Accesories included:	
Standard test leads	
PV test leads,	
termocouple	
Hard Carry Case	

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