

VOLTCRAFT - TOP PERFORMANCE IN EVERY WAY

For more than 40 years, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft's success.

VC331 200 A AC/DC MINI CLAMP METER



Item no: 2893197

The product is a clamp meter and can be used to measure and display various electrical parameters.

CONTENTS

Product // 2 x 1.5 V AAA batteries //
Test leads with removable probe tip covers // Thermocouple // Storage bag //
Operating instructions

TECHNICAL DATA

General

Power supply	2x AAA 1.5 V batteries
Measuring categories	CAT II 600 V CAT III 300 V
Current measurement (AC)	max. 200 A
Display	2000 counts (2 – 3 renewals/sec.)
Clamp opening range	16.5 mm
Automatic shut-off	approx. 15 mins
Display type	EBTN colour
Pollution degree	2
Operating altitude	max. 2000 m (above sea level)
Operating temperature	0 to +40 °C



Operating humidity	<75 % RH (0 to +30 °C) <50 % RH (+30 to +40 °C)
Storage temperature	-10 to +50 °C
Storage humidity	<75 % RH (0 to +30 °C) <50 % RH (+30 to +40 °C)
Dimensions (W x H x D)	182 x 60 x 36 mm
Weight	approx. 194 g

Test leads and probes

Rated voltage	CAT III 1000 V
Rated current	10 A
Protection class	II

Thermocouple

Thermocouple type	K
Temperature (max.)	230 °C (446 °F)
Length	1 m

Specifications

Accuracy

Specified accuracy \pm (% of the reading + display error in counts). //
Accuracy is maintained for 1 year at +23 °C (\pm 5 °C), \leq 75 % RH (non-condensing).

Calibration

The recommended calibration interval is 1 year. //
⚠ Calibration should only be performed by qualified personnel.

Alternating current (AC)

Range	Resolution	Accuracy
20.00 A	0.01 A	\pm (2.5 % +8)
200.0 A	0.1 A	\pm (2.5 % +8)

Overload protection: 200.0 A ; Frequency range: 50-60 Hz ; TrueRMS
Crest factor (CF):
Crest factor 1.0 – 2.0 : +3 % deviation // Crest factor 2.0 – 2.5 : +5 % deviation //
Crest factor 2.5 – 3.0 : +7 % deviation

Direct current (DC)

Range	Resolution	Accuracy
20.00 A	0.01 A	\pm (2 % +3)
200.0 A	0.1 A	\pm (2 % +3)

AC voltage

Range	Resolution	Accuracy
2.000 V	0.001 V	\pm (1.0 % +3)
20.00 V	0.01 V	\pm (1.0 % +3)
200.0 V	0.1 V	\pm (1.0 % +3)
600 V	1 V	\pm (1.2 % +3)

Overload protection: 600 V ; Frequency range: 45 - 400 Hz ; Impedance: 10 M Ω
Crest factor (CF):

Range	Resolution	Accuracy
Crest factor 1.0 – 2.0 : +3 % deviation // Crest factor 2.0 – 2.5 : +5 % deviation //		
Crest factor 2.5 – 3.0 : +7 % deviation		

DC voltage

Range	Resolution	Accuracy
200.0 mV	0.1 mV	±(1.0 % +8)
2.000 V	0.001 V	±(0.7 % +3)
20.00 V	0.01 V	±(0.7 % +3)
200.0 V	0.1 V	±(0.7 % +3)
600 V	1 V	±(0.7 % +3)
Overload protection: 600 V ; Impedance: 10 MΩ		

Resistance

Range	Resolution	Accuracy
200.0 Ω	0.1 Ω	±(1.0 % +2)
2.000 kΩ	0.001 kΩ	±(1.0 % +2)
20.00 kΩ	0.01 kΩ	±(1.0 % +2)
200.0 kΩ	0.1 kΩ	±(1.0 % +2)
2.000 MΩ	0.001 MΩ	±(1.2 % +3)
20.00 MΩ	0.01 MΩ	±(2.0 % +5)
Overload protection: 600 V		

Capacitance

Range	Resolution	Accuracy
2.000 nF	0.001 nF	±(4.0 % +10)
20.00 nF	0.01 nF	±(4.0 % +5)
200.0 nF	0.1 nF	±(4.0 % +5)
2.000 μF	0.001 μF	±(4.0 % +5)
20.00 μF	0.01 μF	±(4.0 % +5)
200.0 μF	0.1 μF	±(4.0 % +5)
2.000 mF	0.001 mF	±10 %
20.00 mF	0.01 mF	±10 %
Overload protection: 600 V		

Temperature

Range	Resolution	Accuracy
-40 to 0 °C	1 °C	±3
>0 to +100 °C	1 °C	±(1.0 % +3)
>100 to +1000 °C	1 °C	±(2.0 % +3)
-40 to +32 °F	1 °F	±6
>32 to +212 °F	1 °F	±(1.0 % +6)
>212 to +1832 °F	1 °F	±(2.0 % +6)

Diode test

Test voltage	approx. 3.2 V
Resolution	1 mV
Overload protection	600 V

Acoustic continuity text

Tone	<10 Ω continuous
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Resolution	0.1 Ω
Overload protection	600 V

Non-contact (AC) voltage test

Test voltage	100 - 600 V/AC
Test distance	≤ 5 mm

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