

VOLTCRAFT

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.

VC33 DIGITAL MULTIMETER

CE

Item no. 2589628

The VC33 can be used in the CAT III 600 V measuring range and offers a wide range of functions from AC/DC voltage measurement to resistance and capacitance measurement to diode testing and non-contact voltage detection (NCV).

FEATURES

CAT III 600 V // Measuring: max. 600 V/DC, max. 600 V/AC, max. 60 M Ω , max. 60 mF // Continuity testing // Diode testing // NCV function



TECHNICAL DATA

DEVICE

Battery power supply	1.5 V, 1 x 1.5 V, type AAA battery
Automatic shut-off	After 10 min.
Display	5999 counts
Auto range selection	Yes
Measurement category	CAT III 600 V
Pollution degree	2
Conformity (safety)	EN 61010-1
AC measurement method	True RMS

MEASURING

DC voltage

Range	Resolution	Accuracy % of reading \pm { counts }
600 mV	0.1 mV	0.5 % \pm { 5 }
6 V	1 mV	0.8 % \pm { 5 }
60 V	10 mV	0.8 % \pm { 5 }
600 V	100 mV	0.8 % \pm { 5 }
Input impedance	10 M Ω	
Overload protection	600 V/DC	

AC voltage

Range	Resolution	Accuracy % of reading \pm { counts }
6 V	1 mV	1.0 % \pm { 3 }
60 V	10 mV	1.0 % \pm { 3 }
600 V	100 mV	1.0 % \pm { 3 }
Input impedance	10 M Ω	
Overload protection	600 V/AC RMS	

Resistance

Range	Resolution	Accuracy % of reading \pm { counts }
600 Ω	0.1 Ω	1.5 % \pm { 2 }
6 k Ω	1 Ω	1.5 % \pm { 2 }
60 k Ω	10 Ω	1.5 % \pm { 2 }
600 k Ω	100 Ω	1.5 % \pm { 2 }
6 M Ω	1 k Ω	1.5 % \pm { 2 }
60 M Ω	10 k Ω	3.0 % \pm { 5 }
Overload protection	250 V/DC; 250 V/AC RMS	

Capacitance

Range	Resolution	Accuracy % of reading ± { counts }
6 µF	1 nF	3.0 % ± { 5 }
60 µF	10 nF	3.0 % ± { 5 }
600 µF	100 nF	3.0 % ± { 5 }
6 mF	1 µF	3.5 % ± { 10 }
60 mF	10 µF	3.5 % ± { 10 }

Overload protection	250 V/DC; 250 V/AC RMS
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TESTING

Diode

Test voltage	V
Test current	1 mA
Overload protection	220 V/DC; 220 V/AC RMS

Continuity

Response threshold	≤50 Ω continuous tone; >50 Ω no tone
Overload protection	220 V/DC 220 V/AC RMS

NCV

Supported frequency range	50 Hz - 1 kHz
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Live wire test

Supported frequency range	50 Hz - 1 kHz
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FLASHLIGHT

Colour temperature	5700 - 6500 K
Luminous flux	7.5 lm

ENVIRONMENT

Operating temperature	-10 to +50 °C
Operating humidity	≤80 % RH (non-condensing)
Storage temperature	-10 to +50 °C
Storage humidity	≤80 % RH (non-condensing)

OTHERS

Dimensions (W x H x D)	approx. 76 x 148 x 19 mm
Weight	approx. 154 g

PACKAGE CONTENTS

Digital multimeter // Test leads (1 pair) // Carrying case // 2x AAA battery // Operating instructions