



# VOLTCRAFT®

## VOLTCRAFT® - TOP PERFORMANCE IN EVERY WAY

“For more than 25 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.”

# VC270 GREEN-LINE DIGITAL MULTIMETER

Nº 12 45 02

CE

VERSION 07/09

The large display showing the measurement log makes this model ideal for all professional applications up to 600 V. The extensive safety measures are rounded off with a self-resetting 400 mA fuse - since a tiresome change of fuse in the 400 mA area is not necessary. The 10 A fuse and battery can only be changed when the measurement lines have been taken off.

## HIGHLIGHTS

Standard measurement ranges  
V/DC, V/AC, A/DC, A/AC //

Resistance //

Diode test //

Acoustic continuity checker //

Capacity test //

Frequency measurement //

Impedance switching //

Relative function //

Auto range //

Sturdy housing with  
soft rubber protection //



# GENERAL SPECIFICATIONS

**DISPLAY:** 4000 counts **BASIC ACCURACY:**  $\pm 0.8\%$  **MEASUREMENT RANGE DC VOLTAGE:** 0.1 mV - 600 V **MEASUREMENT RANGE DC CURRENT:** 0.1  $\mu\text{A}$  - 10 A **MEASUREMENT RANGE AC VOLTAGE:** 1 mV - 600 V **MEASUREMENT RANGE AC CURRENT:** 0.1  $\mu\text{A}$  - 10 A **MEASUREMENT RANGE RESISTANCE:** 0.1  $\Omega$  - 40 M $\Omega$  **VOLTAGE SUPPLY:** 9 V block battery **OVERVOLTAGE CATEGORY:** CAT III 600 V

## TECHNICAL DATA

Functions	Range	Resolution	Accuracy $\pm(a\% \text{ reading} + b \text{ digits})$	Overload protection	Remarks
DCV	400 mV	0.1 mV	$\pm(0.8\% + 3)$	600 V	
	4 V	1 mV			
	40 V	0.01 V	$\pm(0.8\% + 1)$		
	400 V	0.1 V			
	600 V	1 V	$\pm(1.0\% + 3)$		
ACV	4 V	0.001 V	$\pm(1.0\% + 5)$	600 V	Frequency range: 40 - 400 Hz; Effective average at sinusoidal voltage
	40 V	0.01 V			
	400 V	0.1 V			
	600 V	1 V	$\pm(1.2\% + 5)$		
DCA	400 $\mu\text{A}$	0.1 $\mu\text{A}$	$\pm(1.0\% + 2)$	Fuses	Measurement time limit > 5A: max. 10 s with 15 min pause
	4000 $\mu\text{A}$	0.001 mA			
	40 mA	0.01 mA	$\pm(1.2\% + 3)$		
	400 mA	0.1 mA			
	4 A	0.001 A	$\pm(1.5\% + 5)$		
	10 A	0.01 A			
ACA	400 $\mu\text{A}$	0.1 $\mu\text{A}$	$\pm(1.2\% + 2)$	Fuses	Measurement time limit > 5A: max. 10 s with 15 min pause
	4000 $\mu\text{A}$	0.001 mA			
	40 mA	0.01 mA	$\pm(1.5\% + 3)$		
	400 mA	0.1 mA			
	4 A	0.001 A	$\pm(2.0\% + 3)$		
	10 A	0.01 A			
$\Omega$	400 $\Omega$	0.1 $\Omega$	$\pm(1.2\% + 2)$	600 V	Measurement voltage: approx. 0.45 V
	4 k $\Omega$	0.001 k $\Omega$	$\pm(1.0\% + 2)$		
	40 k $\Omega$	0.01 k $\Omega$			
	400 k $\Omega$	0.1 k $\Omega$			
	4 M $\Omega$	0.001 M $\Omega$	$\pm(1.2\% + 2)$		
	40 M $\Omega$	0.01 M $\Omega$	$\pm(1.5\% + 2)$		
Capacity	40 nF	0.01 nF	$\pm(3.0\% + 10)$	600 V	
	400 nF	0.1 nF	$\pm(3.0\% + 5)$		
	4 $\mu\text{F}$	0.001 $\mu\text{F}$			
	40 $\mu\text{F}$	0.01 $\mu\text{F}$			
	100 $\mu\text{F}$	0.1 $\mu\text{F}$	$\pm(4.0\% + 5)$		
Frequency	10 Hz - 10 MHz	0.001 Hz - 0.01 MHz	$\pm(0.1\% + 3)$	600 V	

Function	Test voltage	Resolution	Overload protection
Diode test	approx. 1.48 V	0.001 V	600 V

Acoustic continuity tester < 10  $\Omega$  continuous tone, overload protection 600 V

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