

VOLTCRAFT

VOLTCRAFT® - TOP PERFORMANCE IN EVERY WAY

"Since 1982, 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."

VC150-1 DIGITAL MULTIMETER

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VERSION 12/21

Nº 1090520

Robust upcoming unit with manual Measuring range selection. VOLTCRAFT offers something for every user and scope of the appropriate device. From beginners up to the professional model, always on the current state of the art and the usual price. The VC100 series is designed for all measurement tasks in the household and the leisure sector. Even professional tasks can be performed up to 250 V.

HIGHLIGHTS

Temperature Measurement //

CAT III 250 V //

2000 Counts //

Sturdy starting device with manual selection of measurement range //

Diode test //

Acoustic continuity checker //

Contactless AC coltage checker // hFE transistor testing

(with optional adapter) //

Hold function //

Low battery display //



TECHNICAL DATA

Display	2000 counts (4000 counts with the VC170-1)	
Measuring frequency	approx. 2-3 measuring operations/second	
Measuring lead length	about 75 cm each	
Measuring impedance	>10MΩ (V range)	
Operating voltage	9 V block battery	
Working conditions	0°C to 40°C max. 75% rF, non-condensing	
Operating altitude	max. 2,000 m	
Storage temperature	-10°C to +50°C	
Weight	ca. 200 g	
Dimensions (LxWxH)	137 x 72 x 35 (mm)	
Measuring category	CAT III 250 V	
Degree of contamination	2	

Direct voltage, overload protection 250 V

Range VC130-1/150-1	Accuracy	Resolution	Range VC170-1	Accuracy	Resolution
200 mV		0.1 mV	400 mV*	±(0.8 % + 8)	0.1 mV
2000 mV	±(0.5 % + 8)	1 mV	4000 mV	±(0.8 % + 8)	1 mV
20 V		0.01 V	40 V		0.01 V
200 V		0.1 V	250 V		0.1 V
250 V	±(0.8 % + 8)	1V	* With the VC170-1, the 400 mV measuring range is only available via the manual measuring range selection.		

AC voltage (40 - 400 Hz), overload protection 250 V, Average recording for sinus signal.

Range VC130-1/150-1	Accuracy	Resolution	Range VC170- 1	Accuracy	Resolution
200 V	L(1,E0/- L, Q)	0.1 V	400 mV*	±(2.0 % + 10)	0.1 mV
250 V	±(1.5% + 8)	1 V	4,000 mV		1 mV
			40 V	±(1.6 % + 4)	0.01 V
			250 V		0.1 V
		* With the VC170-1, the available via the manu			

DC current, overload protection 1A/250V + 10 A/250 V

Range VC130-1/150-1	Accuracy	Resolution	Range VC170-1	Accuracy	Resolution
200 μΑ*		0.1 μΑ	400 μΑ	(1.7.0)	0.1 μΑ
2000 μΑ	±(1.3 % + 2)	1μΑ	4,000 μΑ	±(1.3 % + 2)	1 μΑ
20 mA		0.01 mA	40 mA	(1,6,0)	0.01 mA
200 mA	±(1.5 % + 8)	0.1 mA	400 mA	±(1.6 % + 2)	0.1 mA
10 A	±(2.5 % + 10)	0.01 A	4 A	(2.0.0)	0.01 A
* only with the VC130-1		10 A	±(2.0 % + 10)	0.1 A	

AC current (only with VC170-1), overload protection 1A/250V + 10 A/250 V, Average recording for sinus signal.

Range (40 - 400 hz)	Accuracy	Resolution
400 μΑ	(7,6,0% , F)	0.1 μΑ
4,000 μΑ	±(1.6 % + 5)	1 μΑ
40 mA	1(3,0,0% + 8)	0.01 mA
400 mA	±(2.0 % + 8)	0.1 mA
4 A	100 6 0/ / 0	0.001 A
10 A	±(2.6 % + 4)	0.01 A

Resistance, overload protection 250 V, test voltage ca. 0.5 V

Range VC130-1/150-1	Accuracy	Resolution	Range VC170-1	Accuracy	Resolution
200 Ω		0.1 Ω	400 Ω	±(1.6 % + 3)	0,1 Ω
2000 Ω	. (1 0 0/ 10)	1Ω	4 kΩ		0.001 kΩ
20 kΩ	±(1.0 % + 10)	0.01 kΩ	40 kΩ	±(1.3 % + 2)	0.01 kΩ
200 kΩ		0.1 kΩ	400 kΩ		0.1 kΩ
20 ΜΩ	±(1.3 % + 7)	0.01 ΜΩ	4 / 40 ΜΩ	±(2.0 % + 8)	0.001 / 0.01 ΜΩ

Temperature (only VC150-1)

Range	Accuracy	Resolution
-40 to 0 °C	±(10.4 % + 7)	
>0 to 400 °C	±(3.3 % + 4)	1°C
>400 to 1,000 °C	±(3.9 % + 4)	

Frequency / duty cycle (only VC170-1)

Range	Accuracy	Resolution
10 Hz - 10 MHz max. 10 Vrms	±(0.7 % + 4)	0.01 Hz - 0.01 MHz Sensitivity: < 100 kHz = 300 mV > 100 kHz = 600 mV
0.1 – 99.9 %		0.1%
Acoustic continuity tester	<10 Ω Permanent sound	

Diode test test voltage Uo 3.0 V

250 V Diode overload protection/continuity tester:

Transistor test "hFE" 0 – 1000ß, test voltage Uce 3 V, test current Ibo 10 μA

NCV voltage test 230 V/AC

PACKAGE CONTENT

Digital multimeter // Measurement lines // K type thermosensor // Battery // Operating instructions

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