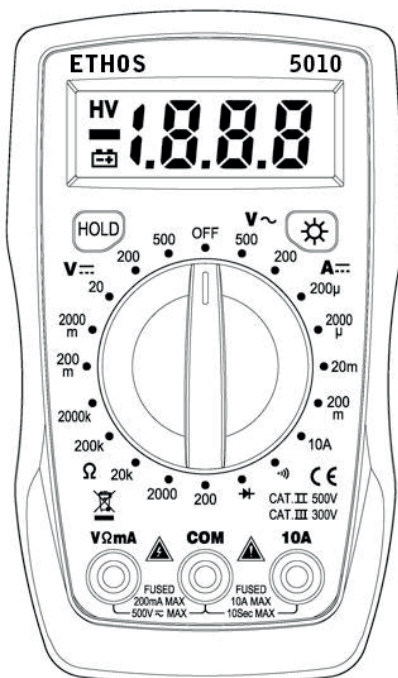


ETHOS 5010 SPECIFICATION

General Specification

Display	LCD with a max. reading of 1999
Range control	Manual range control
Polarity	Automatic negative polarity indication
Zero adjustment	Automatic
Over range indication	The "1" or "-1" display
Low battery indication	Display "⚡" sign
Safety standards	CE EMC/LVD. CATII500V \sim . CATIII 300V \sim . The meter is up to the standards of IEC1010 Double Insulation, Pollution Degree 2, Overvoltage Category II.
Operating environment	Temperature 0°C to 40°C (32 to 104°F), Humidity \leq 80% RH.
Storage environment	Temperature -20°C to 60°C (-4 to 140°F), Humidity \leq 90% RH.
Fuse	F0.5A/500V 5 x 20mm, F10A/500V 5 x 20mm
Test lead probe	CATII 500V / CATII 300V, 10A, L=90cm.
Power supply	3V CR2032 battery
Dimension	125(H) x 74(W) x 30(D) mm
Weight	Approx. 100g (including battery)



ETHOS
Test Instruments

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Electrical Specification

Accuracies are \pm (% of reading + number in last digit)
at $23 \pm 5^{\circ}\text{C}$, $\leq 75\%$ RH.

2.2.1 DC Voltage

Range	Accuracy	Resolution
200mV	$\pm (1.0\%+2)$	0.1mV
2000mV		1mV
20V		10mV
200V		100mV
500V	$\pm (1.2\%+2)$	1V

Overload protection: 600V DC or AC rms

Impedance: $10\text{M}\Omega$, More than $100\text{M}\Omega$ on 60mV/600mV range

2.2.2 AC Voltage

Range	Accuracy	Resolution
200V	$\pm (1.5\%+3)$	100mV
500V		1V

Average sensing, calibrated to rms of sine wave

Frequency: 40~500Hz

Overload protection: 500V DC or AC rms Impedance: $450\text{k}\Omega$

2.2.3 DC Current

Range	Accuracy	Resolution
200 μA	$\pm (1.5\%+2)$	0.1 μA
2000 μA		1 μA
20mA		10 μA
200mA	$\pm (2.0\%+2)$	100 μA
10A	$\pm (2.0\%+3)$	10mA

Overload protection: F0.5A/500V, F10A/500V fuse

Note: 10A up to 10 seconds

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2.2.4 Resistance

Range	Accuracy	Resolution
200 Ω	$\pm (1.0\%+5)$	0.1 Ω
2000 Ω		1 Ω
20k Ω		10 Ω
200k Ω	$\pm (1.0\%+3)$	100 Ω
2000k Ω	$\pm (1.5\%+3)$	1k Ω

Overload protection: F0.5A/500V fuse

2.2.5 Diode and Audible continuity test

Range	Description	Test condition
	Display read approximately forward voltage of diode	Forward DC current approx. 10 μ A Reversed DC voltage approx. 1.8V
	Built-in buzzer sounds if resistance is less than 50 Ω	Open circuit voltage approx. 1.8V

Overload protection: F0.5A/500V fuse

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