

## IRONMETER Digital Multimeter



CAT III 600V



The IRONMETER is a tough construction site tester made to withstand shocks of all kinds and continue to operate with the same level of accuracy and reliability.

The meter comes with an integrated LED flashlight to illuminate in spaces with poor lighting.

### Features

- AC/DC voltage up to 600V
- Autorange
- Frequency
- Resistance and continuity test with buzzer
- Capacitance
- Measuring count: 4000
- Backlight
- Data HOLD, MAX/MIN
- Auto power off
- Power supply: 2x 1.5V AAA
- Size (L x W x H): 120x85x45
- Weight (batteries included): 200g

### Technical Overview

Accuracy calculated as  $\pm[\% \text{reading} + (\text{num dgt} * \text{resolution})]$  ta 18°C - 28°C, <75%HR

#### DC Voltage

Range	Resolution	Accuracy	Overload protection
400.0mV	0.1mV	$\pm(1.0\% \text{rdg} + 3 \text{dgt})$	600V DC/AC
4.000V	0.001V		
40.00V	0.01V		
400.0V	0.1V		
600V	1V		

Input impedance: 10MΩ

#### AC TRMS Voltage

Range	Resolution	Accuracy (50 - 60Hz) (*)	Overload protection
4.000V	0.001V	$\pm(1.0\% \text{rdg} + 3 \text{dgt})$	600V DC/AC
40.00V	0.01V		
400.0V	0.1V		
600V	1V		

(\*) Accuracy specified from 5% to 100% of measurement range, Input impedance: 10MΩ

Frequency range: 50Hz - 60Hz (generic waveform), 45Hz - 1kHz (sinusoidal waveform)

Crest factor:  $\leq 3$  (up to 300V),  $\leq 1.5$  (up to 600V)

#### DC Current

Range	Resolution	Accuracy	Overload protection
400.0μA	0.1μA	$\pm(1.0\% \text{rdg} + 3 \text{dgt})$	Fast Fuse 0.5A/600V (inputs mA, μA)
4000μA	1μA		
40.00mA	0.01mA		
400.0mA	0.1mA		
4.000A	0.001A		
10.00A (*)	0.01A	$\pm(1.2\% \text{rdg} + 3 \text{dgt})$	Fast Fuse 10A/600V (input 10A)

(\*) 20A for max 30s with not declared accuracy

#### AC TRMS Current

Range	Resolution	Accuracy (*) (50Hz - 60Hz)	Overload protection
400.0μA	0.1μA	$\pm(1.2\% \text{rdg} + 3 \text{dgt})$	Fast Fuse 0.5A/600V (inputs mA, μA)
4000μA	1μA		
40.00mA	0.01mA		
400.0mA	0.1mA		
6.000A	0.001A		
10.00A (**)	0.01A	$\pm(1.8\% \text{rdg} + 5 \text{dgt})$	Fast Fuse 10A/600V (input 10A)

(\*) Accuracy specified from 5% to 100% of measurement range

(\*\*) 20A for max 30s with not declared accuracy

#### Diode Test

Function	Test current	Open voltage
	<0.35mA	3VDC

#### Resistance and Continuity Test

Range	Resolution	Accuracy	Buzzer	Overload protection
400.0Ω	0.1Ω	$\pm(1.5\% \text{rdg} + 5 \text{dgt})$	<50Ω	600V DC/AC
4.000kΩ	0.001kΩ			
40.00kΩ	0.01kΩ			
400.0kΩ	0.1kΩ			
4.000MΩ	0.001MΩ			
40.00MΩ	0.01MΩ	$\pm(2.5\% \text{rdg} + 20 \text{dgt})$		

#### Frequency (Electronic circuits)

Range	Resolution	Accuracy	Sensitivity
10.00Hz - 10kHz	0.01Hz	$\pm(1.2\% \text{rdg})$	15V

#### Duty Cycle

Range	Resolution	Accuracy
0.1 - 99.9%	0.1%	$\pm(1.2\% \text{rdg} + 2 \text{dgt})$

Pulse frequency range: 5Hz - 150kHz, Pulse width: 100μs - 100ms

#### Capacitance

Range	Resolution	Accuracy	Overload protection
40.00nF	0.01nF	$\pm(4.5\% \text{rdg} + 10 \text{dgt})$	600V DC/AC
400.0nF	0.1nF		
4.000μF	0.001μF	$\pm(3.0\% \text{rdg} + 5 \text{dgt})$	
40.00μF	0.01μF		
400.0μF	0.1μF		
4000μF	1μF		

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