



The new Wavecom model 98 Professional Digital Multimeter which provides very safe measurements with a double moulded plastic housing design and IP67 water proof function, has been specifically designed for electricians technicians and engineers.

This virtually indestructible Wavecom 98 meter has the features, resolution and accuracy to troubleshoot electronic equipment, industrial automation power to distribution and electro mechanical systems.

The model 98 Multimeter performs functions such as data logger, TRUE RMS AC Voltage, current measurements and has 40000 count resolution with basic 0.86% basic DC accuracy. The large LCD display with analog bar graph and backlit feature ensures that readings are easy to read under all environments.

All inputs are protected to EN 61010-1 CATIV 600V/ CATIII 1000V.

Features

- ◆ 40000 count high resolution display
- ◆ Triple LCD display with bar graph & backlight
- ◆ 4-20mA process loop measurements with % reading
- ◆ Data Hold/ Max/Min recording mode
- ◆ AC + DC measurement
- ◆ IP67 Dust and Waterproof
- ◆ Auto power off
- ◆ Wireless USB interface
- ◆ 1000 V input protection on all ranges
- ◆ True RMS measurement & peak capture mode

Safety Conformance

- ◆ EN61010-1 CATIV 600V/CATIII 1000V
- ◆ 1000V input protection on all ranges
- ◆ 10A/1000V & 0.5A/1000V fuse protection on current ranges

Function	Range	Resolution	Accuracy
DC Voltage	400mV	0.01mV	± (0.06% reading + 4 digits)
	4V	0.0001V	
	40V	0.001V	
	400V	0.01V	
	1000V	0.1V	± (0.1% reading + 5 digits)
AC Voltage (AC+DC)			50 to 1000Hz
	400mV	0.01mV	± (0.1% reading + 40 digits)
	4V	0.0001V	± (1.0% reading + 30 digits)
	40V	0.001V	
	400V	0.01V	
1000V	0.1V		
All AC Voltage ranges are specified from 5% of range to 100% of range			
DC Current	400µA	0.01µA	± (1.0% reading + 3 digits)
	4000µA	0.1µA	
	40mA	0.001mA	
	400mA	0.01mA	
	10A	0.001A	
20A: 30 sec Max with reduced accuracy			
AC Current (AC+DC)			50 to 1000Hz
	400µA	0.01µA	± (1.5% reading + 30 digits)
	4000µA	0.1µA	
	40mA	0.001mA	
	400mA	0.01mA	
10A	0.001A		
20A: 30 sec max with reduced accuracy			
All AC voltage ranges are specified from 5% of range to 100% of range			

Function	Range	Resolution	Accuracy
Resistance	400Ω	0.01Ω	± (0.3% reading + 9 digits)
	4kΩ	0.0001kΩ	± (0.3% reading + 4 digits)
	40kΩ	0.001kΩ	
	400kΩ	0.01kΩ	
		4MΩ	0.001MΩ
	40MΩ	0.001MΩ	± (5.0% reading + 10 digits)
Capacitance	40nF	0.001 nF	± (3.5% reading + 40 digits)
	400nF	0.01 nF	
	4µF	0.0001 µF	± (3.5% reading + 10 digits)
	40µF	0.001 µF	
	400µF	0.01 µF	
	4000µF	0.1 µF	
	40mF	0.001 mF	± (5% reading + 10 digits)
Frequency (electronic)	40Hz	0.001Hz	± (0.1% reading + 1 digits)
	400Hz	0.01Hz	
	4kHz	0.0001Hz	
	40kHz	0.001Hz	
	400kHz	0.01Hz	Not specified
	4MHz	0.0001Hz	
	40MHz	0.001Hz	
	100MHz	0.01Hz	
	Sensitivity: 0.8Vrms min @20% to 80% duty cycle and <100kHz; 5Vrms min @ 20% to 80% duty cycle and > 100kHz		
Frequency (electrical)	40Hz-10KHz	0.01Hz-0.001KHz	± (0.5% reading)
	Sensitivity: 1Vrms		
Duty Cycle	0.1 to 99.90%	0.01%	± (1.2% reading + 2 digits)
	Pulse width: 100µs-100ms, Frequency: 5Hz to 150kHz		
Temp (type K)	-50°C to 1200°C	0.1°C	± (1.0% reading + 2.5° C)
	-58°F to 2192°C	0.1°F	± (1.0% reading + 4.5° F) probe accuracy not included
4-20mA%	-25 to 125%		0.01%
	0mA=-25%, 4mA=0%, 20mA=100%, 24mA=125%		

technical specifications

AC Response	TRUE RMS
ACV Bandwidth	50Hz to 1000Hz
Crest Factor	≤3 at full scale up to 500V, decreasing linearly to ≤1.5 at 1000V
Over range indication	“OL” is displayed
Measurement Rate	2 times per second
Store capacitance	9999
Enclosure	Double moulded , water proof
Shock (Drop test)	2 metres (6.5 feet)
Diode Test	Test current of 0.9mA Maximum, Open circuit voltage 2.8V DC typical
Continuity Check	Audible Signal will sound if the resistance is less than 35Ω (approx.) test current <0.35mA
PEAK	Captures Peaks >1ms
Temperature sensor	Requires type-K thermocouple
Input Impedance	>10MΩ VDC & >9MΩ VAC
Display	40,000 count backlit liquid crystal with bar graph
Auto Power off	15 minutes (approx.) with disable feature
Battery	One 9 volt (NEDA 1604) battery
Low battery indication	empty battery symbol is displayed if battery drops below operating voltage
Fuses	mA, µA ranges; 0.5A/1000V ceramic fast blow A range; 10A/1000V ceramic fast blow
Polarity	Automatic (no indication for positive); Minus (-) sign for negative
Operating Temperature	5°C to 40°C (41°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	Maximum 80% up to 31°C decreasing linearly to 50% at 40°C.
Storage Humidity	Maximum 80%
Operating Altitude	2000 metres maximum
Weight	342g (including holster)
Size	187 x 81 x 50 mm (including holster)



IP67 rating

Order Information

Wavcom 98 Digital Multimeter

| Part No: **WCM-98**

Contact us

South Australia
257 Grange Road
FINDON, SA 5023
P: +61 08 8243 3500
F: +61 08 8243 3501
E: sales@wavcom.com.au

Victoria
772A Station Street,
Box Hill, VIC 3128
P: +61 03 9897 4711
F: +61 03 9897 4766
E: salesvic@wavcom.com.au

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