

Digital Multimeter with Environmental Tester

Dawson DSM101N



DSM101N Dawson Digital Multimeter with Environmental Tester

is a portable, multifunction digital multimeter featuring a large three line backlight LCD screen. Basic functions include: AC/DC voltage, AC/DC current, resistance, capacitance, frequency and duty cycle measuring. It also features a thermocouple, ambient temperature, relative humidity, sound level and luminosity measurements. The retractable stand is ideal for travel and office use. This DSM101N is truly an All-in-One meter that is ideal for both professional and hobbyists.

VOLTAGE	AC 750V DC 1000V
CURRENT	AC 10A DC 10A

$\bar{V}$	$\bar{A}$	Ω	Lux	AUTO	AP0
$\frac{1}{f}$	Hz%	°F/°C	$\rightarrow$	$\square$	$\odot$
$\hookrightarrow$	$\hookrightarrow$	dB	H		



For Additional product information please contact Dawson Tools at
1142 S. Diamond Bar Blvd., #858 Diamond Bar, CA 91765

Tel: 310-728-6220 www.dawsonstools.com

Technical Specification

Measurement	Measuring Range	Accuracy*	Resolution
Voltage			
DC (V)	400mV	±(0.7% + 2 counts)	0.1mV
	4V		0.001V
	40V		0.01V
	400V		0.1V
	1000V		1V
AC (V)	400mV	±(0.8% + 3 counts)	0.1mV
	4V		0.001V
	40V		0.01V
	400V		0.1V
	750V	±(1.0% + 3 counts)	1V
Current			
DC (A)	400µA	±(1.2% + 3 counts)	0.1µA
	4mA		0.001mA
	40mA		0.01mA
	400mA		0.1mA
	4A		0.001A
	10A	±(2.0% + 10 counts)	0.01A
AC (A)	400µA	±(1.5% + 5 counts)	0.1µA
	4mA		0.001mA
	40mA		0.01mA
	400mA		0.1mA
	4A		0.001A
	10A	±(3.0% + 10 counts)	0.01A
Resistance			
Ohms (Ω)	400Ω	±(1.2% + 2 counts)	0.1Ω
	4kΩ		0.001kΩ
	40kΩ		0.01kΩ
	400kΩ		0.1kΩ
	4MΩ		0.001MΩ
	40MΩ	±(2.0% + 5 counts)	0.1MΩ
Capacitance			
Farads (F)	40nF	±(3.0% + 3 counts)	0.01nF
	400nF		0.1nF
	4µF		0.001µF
	40µF		0.01µF
	100µF		0.1µF
Diode			
Voltage (V)	1V	Forward biased voltage drop	0.001V
Continuity			
Ohms (Ω)	400Ω	Beep at <40Ω	0.1Ω

Technical Specification (Cont.)

Measurement	Measuring Range	Accuracy*	Resolution
Frequency			
Hertz (Hz)	9.999Hz	$\pm(2.0\% + 5 \text{ counts})$	0.001Hz
	99.99Hz		0.01Hz
	999.9Hz		0.1Hz
	9.999kHz		0.001kHz
	99.99kHz		0.01kHz
	199.9kHz		0.1kHz
	>200kHz	For Reference Only	
Duty Cycle (%)	0.1-99.9%	$\pm 3.0\%$	0.1%
Relative Humidity			
RH (%)	20-95%	$\pm 5.0\%$	0.1%
Temperature			
Thermoresistor NTC Sensor (°F/°C)	32-104°F	$\pm 2.0^\circ\text{F}$	0.1°F
	0-40°C	$\pm 2.0^\circ\text{C}$	0.1°C
Thermocouple (°F/°C)	-4-32°F	$\pm 5.0\%$ or $\pm 6^\circ\text{F}$	1°F
	32-752°F	$\pm 1.0\%$ or $\pm 4^\circ\text{F}$	
	752-1832°F	$\pm 2.0\%$	
	-20-0°C	$\pm 5.0\%$ or $\pm 3^\circ\text{C}$	
	0-400°C	$\pm 1.0\%$ or $\pm 2^\circ\text{C}$	
	400-1000°C	$\pm 2.0\%$	
Sound Level			
Decibels (dB)	40-100dB	$\pm(3.5\text{dB at } 94\text{dB, } 1 \text{ kHz sine wave})$	0.1dB
Luminance			
Lux	4000 Lux	$\pm(5.0\% + 10 \text{ counts})$ at color temp: 2856K	1 Lux
x10 Lux	40000 Lux		10 Lux

* All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions or under required conditions.

Product Information

Dimensions (LxWxH):

7.7"x3.6"x2.2"/195x92x55 (mm)

Weight: 0.88 lbs (400 g)

Safety Rating: CAT. II 1000V

CAT. III 600V

Warranty: 3 years

Distributed By: