

Model DMM 140

# TRMS Multimeter

## 4000-count Manual & Auto-Ranging



### Manual & Auto-Ranging TRMS Multimeter

- 600VAC/DC Voltmeter
- 10AAC/DC Ammeter
- Resistance to 40M $\Omega$
- Continuity with Buzzer and Diode Test
- Capacitance, Frequency and % Duty Cycle
- Data HOLD and Backlight
- Auto Power OFF and Low Battery Indication
- Protective Industrial Grey Holster with Stand
- IEC/EN 61010 Safety Rated & CE Mark

## 4000-count TRMS Manual & Auto-Ranging Multimeter

ELECTRICAL SPECIFICATIONS		Model DMM 140
<b>DC Volts</b>		
Measurement Ranges	5 Ranges: 400mV, 4V, 40V, 400V, 600V	
Accuracy* & Resolution	400mV: 0.5% ± 2cts - 0.1mV Resolution 4V: 0.5% ± 2cts - 1mV (0.001V) Resolution 40V: 0.5% ± 2cts - 10 mV (0.01V) Resolution 400V: 0.5% ± 2cts - 100 mV (0.1V) Resolution 600V: 0.5% ± 2cts - 1V Resolution	
Input Impedance	10MΩ	
<b>AC Volts (TRMS)</b>		
Measurement Ranges	5 Ranges: 400mV, 4V, 40V, 400V, 600V	
Accuracy* & Resolution	400mV: 1.0% ± 4cts - 0.1mV Resolution 4V: 1.0% ± 4cts - 1mV (0.001V) Resolution 40V: 1.0% ± 4cts - 10mV (0.01V) Resolution 400V: 1.0% ± 4cts - 100mV (0.1V) Resolution 600V: 1.0% ± 4cts - 1V Resolution	
Input Impedance	10MΩ	
<b>DC Amperes</b>		
Measurement Ranges	6 Ranges: 400μA, 4mA, 40mA, 400mA, 4A, 10A	
Accuracy* & Resolution	400μA: 1.2% ± 2cts - 0.1μA Resolution 4mA: 1.2% ± 2cts - 0.001mA Resolution 40mA: 1.2% ± 2cts - 0.01mA Resolution 400mA: 1.2% ± 2cts - 1mA (Resolution) 4A: 1.2% ± 2cts - 1mA (0.001A) Resolution 10A: 1.2% ± 2cts - 10mA (0.01A) Resolution	
<b>AC Amperes (TRMS)</b>		
Measurement Ranges	6 Ranges: 400μA, 4mA, 40mA, 400mA, 4A, 10A	
Accuracy* & Resolution	400μA: 1.5% ± 4cts - 1μA Resolution 4mA: 1.5% ± 4cts - 0.001mA Resolution 40mA: 1.5% ± 4cts - 0.01mA Resolution 400mA: 1.5% ± 4cts - 1mA (Resolution) 4A: 1.5% ± 4cts - 1mA (0.001A) Resolution 10A: 1.5% ± 4cts - 10mA (0.01A) Resolution	
<b>Resistance (Ohms)</b>		
Measurement Ranges	7 Ranges: 40Ω, 400Ω, 4000Ω, 40kΩ, 400kΩ, 4MΩ, 40MΩ	
Accuracy* & Resolution	40Ω: 1.0% ± 3cts - 0.01Ω Resolution 400Ω: 1.0% ± 3cts - 0.1Ω Resolution 4000Ω: 1.0% ± 3cts - 1Ω Resolution 40kΩ: 1.0% ± 3cts - 0.01kΩ Resolution 400kΩ: 1.0% ± 3cts - 0.1kΩ Resolution 4MΩ: 1.0% ± 3cts - 0.001MΩ Resolution 40MΩ: 1.0% ± 3cts - 0.01MΩ Resolution	

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<b>Continuity</b>	
Measurement Range	0 to 400Ω Range with Buzzer <100Ω, Response time <10ms, 500VAC/DC PTC Protection
<b>Diode Test</b>	
Measurement Range	0 to 4.000V
<b>Capacitance</b>	
Measurement Ranges	4 Ranges: 40nF, 400nF, 40μF, 100μF
Accuracy* & Resolution	40nF: 3.0% ± 3cts - 0.01nF Resolution 400nF: 3.0% ± 3cts - 0.1nF Resolution 40μF: 3.0% ± 3cts - 0.01μF Resolution 100μF: 3.0% ± 3cts - 0.1μF Resolution
<b>Frequency (Hz)</b>	
Measurement Ranges	6 Ranges: 40Hz, 400Hz, 4000Hz, 40kHz, 400kHz, 4MHz
Accuracy* & Resolution	40Hz: 0.2% ± 2cts - 0.01Hz Resolution 400Hz: 0.2% ± 2cts - 0.1Hz Resolution 4000Hz: 0.2% ± 2cts - 1Hz Resolution 40kHz: 0.2% ± 2cts - 0.01kHz Resolution 400kHz: 0.2% ± 2cts - 0.1kHz Resolution 4MHz: 0.2% ± 2cts - 0.01MHz Resolution
<b>Duty Cycle (%)</b>	
Measurement Range	0.1% - 99.9%, Accuracy 1% ± 3cts
<b>Other Functions</b>	
Data Hold	Yes – Dedicated “DATA HOLD” push-button (Yellow)
Back-Light	Yes – Press Data Hold push-button for 2 seconds
Auto-Range & Manual Range	Yes – Auto-Range with Manual selection through “RANGE” button (Grey)
Over-Range Indication	Yes – “OL” displayed if Over-Range
Auto-OFF	Yes – Auto-OFF with user over-ride to disable.
<b>GENERAL SPECIFICATIONS</b>	
<b>Model DMM 140</b>	
Display	4000-count 3¾ Digit LCD with backlight – “OL” Displayed for Over-Range
Operating Temperature & %RH	32° to 104°F (0° to 40°C), 80% RH max non-condensing
Storage Temperature & %RH	14° to 122°F (-10° to 50°C), 80% RH max non-condensing, battery removed
Altitude	6000 ft (2000m)
Range Selection	Auto-Ranging and Manual selection by “RANGE” push-button (Grey Button) “SELECT” push-button (Blue Button) for additional function selection: Hz/Duty Cycle and Ω/Diode/Continuity/Capacitance
Power Supply	2 Batteries – 1.5V type AA (LR6)
Battery Power Management	Low Battery Indicator on LCD Auto-Off after 30 minutes to conserve battery power
Fuse	500mA, 250V (5x20mm)
Holster	Grey color (dirt resistant) soft protective holster with stand
Dimensions & Weight	1.38 x 3.07 x 5.84” (35 x 78 x 152mm) - 11.8 oz (330g) with holster
Warranty	One Year
<b>Safety</b>	
Safety Standards	IEC/EN 61010 – 600V Cat. II and 300V Cat. III, CE mark

NOTE: \* Accuracy given @ 23°C ± 5°C, 75% RH Max.

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**Multimetrix®**

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### Ordering Information

4000-count Multimeter Model DMM 140      Catalog Number: MMX-DMM140

**Includes:** Multimeter DMM 140 – Grey Rubber Holster - 1 x Lead Set with Needle Point Test Probe (Red & Black) - 2 x 1.5V AA Batteries - User Manual

**Optional Accessories: Carry Case – Accessory No. 20 – Cat. MMX-ACC20.** Soft padded carrying case, with compartment for lead storage, belt loop and attachment ring. Front flap with Velcro® closure. For DMMs MMX 110/120/140 and X1000.

***Specifications and Prices are subject to change without notice.  
Consult Factory before ordering.***