

# 600 A True RMS Clamp Meters and Non-Contact Voltage



## HHM-MA640



- ✓ True RMS for Accurate Readings of Non-Sinusoidal Waveforms
- ✓ Built-In Non-Contact Voltage Detector with LED Alert
- ✓ 40 mm (1.5") Jaw Size for Conductors up to 500 MCM
- ✓ 6000 Count, Backlit LCD
- ✓ Includes Multimeter Functions
- ✓ Measures DC Current
- ✓ Relative Mode for Capacitance Zero and Offset Adjustment
- ✓ Data Hold, Min/Max, and Auto Power Off

The HHM-MA640 is a true RMS clamp meter. This meter measures AC current, DC current, AC/DC voltage, resistance, capacitance, frequency, diode test, duty cycle and continuity. The molded case is designed for heavy duty use. The integrated non-contact voltage detector quickly checks for the presence of live wires before testing needs to be started.



Built-in non-contact voltage detector with LED alert.

HHM-MA640 shown smaller than actual size.





**FREE Thermocouple Included!**

All models include a free 900 mm (36") Type K insulated beaded wire thermocouple with subminiature connector and wire spool caddy. Order a Spare! Model No. SC-GG-K-30-36

**40 mm (1.5") jaw size for conductors up to 500MCM.**



Specifications	Range	Max Resolution	Basic Accuracy (% readings+digits)
<b>Clamp Jaw Opening</b>	40 mm (1.5") approx.	—	—
<b>Display Counts</b>	6000 backlit LCD	—	—
<b>Input Impedance</b>	10M $\Omega$ (Vdc and Vac)	—	—
<b>Measurement Rate</b>	2 readings per second, nominal	—	—
<b>AC Current Bandwidth</b>	50/60 Hz	—	—
<b>AC Voltage Bandwidth</b>	50 to 400 Hz	—	—
<b>AC Response</b>	True RMS (AAC and Vac)	—	—
<b>Crest Factor</b>	3.0 in 60A and 600A ranges, (50/60 Hz and 5 to 100% of range)	—	—
<b>AC Current (True RMS)</b>	60.00A, 600.0A	0.01A	$\pm(2.8\% + 8d)$
<b>DC Current (MA640 only)</b>	60.00A, 600.0A	0.01A	$\pm(2.8\% + 8d)$
<b>AC Voltage (True RMS)</b>	6.000V, 60.00V, 600.0V	0.001V	$\pm(1.8\% + 8d)$
<b>DC Voltage</b>	600.0mV, 6.000V, 60.00V, 600.0V	0.1 mV	$\pm(1.5\% + 2d)$
<b>Resistance</b>	600.0 $\Omega$ , 6.000 K $\Omega$ , 60.00 K $\Omega$ , 600.0 K $\Omega$ , 6.000M $\Omega$ , 60.00M $\Omega$	0.1 $\Omega$	$\pm(1.0\% + 4d)$
<b>Frequency</b>	10Hz to 10kHz	0.01nF	$\pm(3.0\% + 5d)$
<b>Capacitance</b>	40.00nF, 400.0nF, 4.000 $\mu$ F, 40.00 $\mu$ F, 400.0 $\mu$ F, 4000 $\mu$ F	0.01nF	$\pm(3.0\% + 5d)$
<b>Temperature</b>	-20 to 760°C (-4 to 1400°F)	0.1°	$\pm(3\% + 9°F/5°C)$
<b>Thermocouple Sensor</b>	Type K thermocouple required		
<b>Duty Cycle</b>	0.5 to 99.0%	0.1%	$\pm(1.2\% + 2d)$
<b>Diode</b>	Test current of 0.9 mA typical; Open circuit voltage 2.8 Vdc typical	—	—
<b>Continuity</b>	Threshold 60 $\Omega$ ; Test current < 0.35mA	—	—
<b>Operating Temperature</b>	5 to 40°C (41 to 104°F)	—	—
<b>Storage Temperature</b>	-20 to 60°C (-4 to 140°F)	—	—
<b>Operating Humidity</b>	Max 80% up to 31°C (87°F) decreasing linearly to 50% at 40°C (104°F)		
<b>Storage Humidity</b>	<80%	—	—
<b>Operating Altitude</b>	2000 m (7000') max	—	—
<b>Dimensions</b>	232 L x 77 W x 39 mm D (9.1 x 3 x 1.5")	—	—
<b>Low Battery Indication</b>	Battery symbol is displayed	—	—
<b>Over-Range Indication</b>	'OL' display	—	—
<b>Auto Power OFF</b>	After approx. 15 minutes, with disable	—	—
<b>Weight</b>	271 g (9.6 oz)	—	—
<b>Safety</b>	For indoor use and in accordance with the requirements for double insulation to IEC1010-1 (2001): EN61010-1 (2001) Overvoltage Category III 600V and Category II 1000V, Pollution Degree 2	—	—

**To Order Visit [omega.com/hhm-ma640](http://omega.com/hhm-ma640) for Pricing and Details**

Model No.	Description
HMM-MA640	600A True RMS AC/DC clamp meter with non-contact voltage

Comes complete with test leads, general purpose Type K bead wire temperature probe, 9V battery, carrying case and operator's manual. Ordering Example: HMM-MA640, 600A true RMS AC/DC clamp meter with non-contact voltage.