

Model CM 685

1000AAC/DC TRMS Auto-Ranging Clamp-on Meter



Professional 1000AAC/DC TRMS Clamp-on Multimeter

- 4300-count LCD Display – Excellent Resolution
- 1000AAC/DC TRMS Ammeter (Ø 1.57" - 40mm Jaw Opening)
- 600VAC/DC TRMS Voltmeter
- Resistance & Continuity Protected to 600V
- Frequency (Hz) in Amps and Volts
- Temperature in °C and °F
- High Accuracy – 0.75% in VDC
- Data HOLD, MIN/MAX (recorded simultaneously) & PEAK Functions
- Selectable Auto-OFF and Low Battery Indication
- IEC/EN 61010 Safety Rated & CE Mark
- Ideal for Plant and General Electrical Maintenance

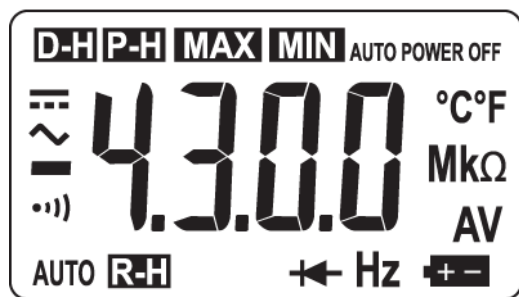
1000AAC/DC TRMS Auto-Ranging Clamp-on Meter

ELECTRICAL SPECIFICATIONS		Model CM 685
AC Amperes (TRMS)		
Measurement Ranges	3 Ranges: 40A, 400A, 1000A	
Accuracy & Resolution	40A: 1.5% ± 8cts - 0.01A Resolution 400A: 1.0% ± 5cts - 0.1A Resolution 1000A: 1.0% ± 5cts - 1A Resolution	
DC Amperes		
Measurement Ranges	3 Ranges: 40A, 400A, 1000A	
Accuracy & Resolution	40A: 1.5% ± 8cts - 0.01A Resolution 400A: 1.0% ± 5cts - 0.1A Resolution 1000A: 1.0% ± 5cts - 1A Resolution	
AC Volts (TRMS)		
Measurement Ranges	4 Ranges: 4V, 40V, 400V, 600V	
Accuracy & Resolution	4V: 1.0% ± 5cts - 1mV Resolution 40V: 1.0% ± 5cts - 10mV Resolution 400V: 1.0% ± 5cts - 100mV Resolution 600V: 1.0% ± 5cts - 1V Resolution	
Input Impedance	10MΩ, 11MΩ (4V range), <50pF	
Frequency	48 to 65Hz	
DC Volts		
Measurement Ranges	4 Ranges: 4V, 40V, 400V, 600V	
Accuracy & Resolution	4V: 0.75% ± 2cts - 1mV Resolution 40V: 0.75% ± 2cts - 10mV Resolution 400V: 0.75% ± 2cts - 100mV Resolution 600V: 0.75% ± 2cts - 1V Resolution	
Input Impedance	10MΩ, 11MΩ (4V range)	
Resistance (Ohms)		
Measurement Ranges	6 Ranges: 400Ω, 4000Ω, 40kΩ, 400kΩ, 4MΩ, 40MΩ	
Accuracy & Resolution	400Ω: 0.9% ± 2cts - 0.1Ω Resolution 4000Ω: 0.9% ± 2cts - 1Ω Resolution 40kΩ: 0.9% ± 2cts - 0.01kΩ Resolution 400kΩ: 0.9% ± 2cts - 0.1kΩ Resolution 4MΩ: 2.0% ± 2cts - 0.001MΩ Resolution 40MΩ: 5.0% ± 2cts - 0.01MΩ Resolution	
Continuity		
	400Ω Range with Buzzer <50Ω ± 25Ω, 3.4V max	
Frequency (Hz)		
Measurement Ranges	2 Ranges: 400Hz & 4000Hz	
Functions	Hz may be read on AAc and VAc by pressing "Select" (2A min, 20Hz min)	
Accuracy & Resolution	400Hz: 0.5% ± 5cts - 0.1Hz Resolution 4000Hz: 0.5% ± 5cts - 0.1Hz Resolution	
Temperature (K type t/c)		
Measurement Ranges	4 Ranges: 436.9°C, 1100°C; 818°F, 2012°F	
Accuracy & Resolution	-50° to 436°C: 1.0% ± 5cts - 0.1°C Resolution -50° to 1100°C: 1.0% ± 5cts - 1°C Resolution -58° to 818°F: 1.0% ± 5cts - 0.2°F Resolution -58° to 2012°F: 1.0% ± 5cts - 2°F Resolution	
Other Functions		
DATA HOLD	Yes – Holds last reading when pressed – Dedicated push-button	
MIN/MAX Function	Yes – Holds MIN & MAX (recorded simultaneously) for A & Temp values – Dedicated push-button	
PEAK Function	Yes – Holds PEAK A values, – Dedicated push-button Approx 1ms response – Accuracy: 2.5% ± 30cts	
Auto-Ranging	Yes - With Manual Over-Ride	
Over-Range	Yes - "OL" displayed with beeper or "-----"	
Auto-OFF	Yes - Auto-OFF after approx 10 minutes – with Over-Ride	

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GENERAL SPECIFICATIONS		Model CM 685
Display	Large 4300-count LCD – “OL” Displayed if Over-Range	
Jaw Opening (Window)	Ø 1.57" (Ø 40mm) or .40 x 1.85" (10 x 47mm)	
Operating Temperature & %RH	32° to 122°F (0° to 50°C), 80% RH max non-condensing	
Storage Temperature & %RH	14° to 140°F (-10° to 60°C), 70% RH max non-condensing	
Altitude	6000 ft (2000m)	
Push-button Range Selection	RANGE: Auto-Ranging and Manual selection (Yellow button) SELECT: Frequency (A&V), Continuity and Temperature (°C/°F) selection (Blue button) MIN/MAX: Holds MIN or MAX readings (Yellow button) PEAK: Holds PEAK readings (Yellow button)	
Power Supply	2 batteries – 1.5V type AA or LR6 (Alkaline)	
Battery Power Management	Low Battery Indicator on LCD, Auto-Off after 10 minutes Auto-Off disabled by pressing HOLD and turning the meter ON	
Dimensions & Weight	9.49 x 3.58 x 1.77" (241 x 91 x 45mm) - 13.9 oz (390g)	
Warranty	One Year	
Safety		
Safety Standards	IEC/EN 61010-1 and 2-032 – 600V, Cat. III – Pollution Degree 2 Class 2 – Double or reinforced insulation, CE mark	
Protection	Ohmmeter, Continuity, Hz and Temperature Ranges protected to 600VAC/DC	

NOTE: Accuracy @ 23°C ±5°C, 80%RH max, conductor centered in A, 40-400Hz in AC and Hz



Multimetrix®

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Ordering Information

Clamp-on Multimeter Model CM 685 Catalog Number: MMX-CM685

Includes: Clamp-on Meter CM 685 - Lead Set (Red & Black) with Needle Point Test Probe - Carrying Case - 2 x 1.5V AA Batteries - User Manual

Optional Accessories: Accessory No. 80 – Catalog No. MMX-ACC80
K type thermocouple (green) - pigtail with bead termination, mini t/c connector to banana plug input adaptor – for Models CM 660/670/685

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