

100Aac/dc Low Current Clamp-On Meter Model CM605



**For Process
and Industrial
applications**



The Multifunction Clamp-on Meter Model CM605 is an ideal choice for both process and general industrial markets. It is also the perfect instrument for measuring 4 to 20mA process signals, as well as, the higher currents (up to 100A) associated with general industrial monitoring and troubleshooting.

The Model CM605 is a versatile device that is capable of measuring both AC/DC voltages, up to 600V, and AC/DC current. It can also measure resistance up to 10k Ω and includes a continuity buzzer to assist in circuit verification.

For operator convenience, the Model CM605 can also hold the last reading in the display and capture the peak value at the time of the measurement.

Specifications

SPECIFICATIONS	
MODEL	CM605
ELECTRICAL	
AC Current	
Measurement Ranges	2 Ranges: 10A, 100A
Accuracy & Resolution	10A: 2.0% ± 10cts - 1mA Resolution 80A: 2.0% ± 10cts - 10mA Resolution > 80A: 3.5% ± 10cts - 10mA Resolution
Frequency Range	2 Ranges: 50 to 500Hz
DC Current (positive only)	
Measurement Ranges	2 Ranges: 10A, 100A
Accuracy & Resolution	10A: 2.5% ± 10cts - 1mA Resolution 80A: 2.5% ± 10cts - 10mA Resolution > 80A: 4.5% ± 10cts - 10mA Resolution
AC Volts	
Measurement Ranges	600Vrms
Accuracy & Resolution	1.5% ± 5cts - 100mV Resolution
Frequency	40 to 500Hz
Input Impedance	10MΩ, < 50pF
DC Volts (positive only)	
Measurement Ranges	600V
Accuracy & Resolution	1.0% ± 2cts - 100mV Resolution
Input Impedance	10MΩ
Resistance (Ohms)	
Measurement Ranges	10kΩ (9999Ω)
Accuracy & Resolution	1.0% ± 3cts - 1Ω Resolution
Test Voltage	< 3.0VDC
Continuity	
Measurement Ranges	Buzzer < 100Ω ± 25Ω
Resolution	1Ω
Test Voltage	< 3.0Vdc
Analog Output	
Output	10mV/Aac & Adc through front banana jacks
Frequency	0 to 20kHz @ ± 3db
Output Impedance	3kΩ, < 50pF
Other Functions	
Adc Zero & Relative Function	One touch push button (ΔZERO Button) to Zero Adc, or other readings. Relative function also used in the other ranges to compare two measurements.
HOLD Function	Holds A & V measurements when pressed (HOLD button)
PEAK Function	Captures PEAK (1ms) V or A measurement when activated (PEAK Button)
Auto-Ranging	"AUTO" displayed on LCD
Over Range	"OL" displayed on LCD for all measurements
Auto-Off	Auto-Off after approx 10 minute with Over-Ride
Low Battery	Low Battery indication on LCD
MECHANICAL	
Max. Cable Diameter	Ø 0.45" (Ø 12mm)
Max. Jaw Opening	0.60" (Ø 15mm)
Power Source	Two 1.5V AAA (LR03) batteries (included)
Dimensions & Weight	7.95 x 2.76 x 1.33" (202 x 70 x 34mm) – 6.5 oz (180g)
Safety Standards	IEC/EN 61010-1 and 2-032 – 600V CAT II and 300V CAT III – Pollution Degree 2 Class 2 – Double or reinforced insulation, CE mark

Features

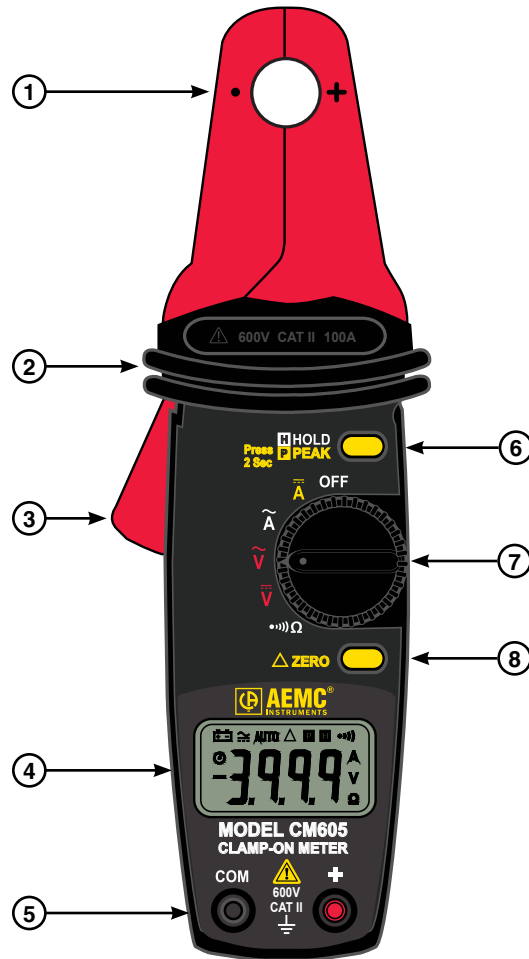
- 0.001 to 10A, 10mA to 100A
- 10,000-count LCD Display - Excellent Resolution
- 100AAC/DC Ammeter with low 10A Range (1mA Resolution)
- Tapered Jaws for crowded wiring areas (Ø.45"- 12mm Jaw Opening)
- 600VAC/DC Voltmeter
- Analog Output in AAC/DC
- Auto-Ranging & Adc Zero Push-button
- Data HOLD & PEAK Functions
- Relative Function to Compare Two Measurements
- Ohm Range & Continuity Test with Beeper
- AUTO-OFF and Low Battery Indicator
- IEC/EN 61010 Safety Rated & CE Mark
- 600Vrms Overload Protection

Applications

- Process loop monitoring
- Automotive electrical troubleshooting
- Industrial plant maintenance
- General AC and DC voltage and current monitoring
- Continuity checking



Construction



1. Jaw Assembly Ø.45" (12mm)
2. Safety Barrier Anti-slip Guard
3. Lever for Jaw Opening/Closing
4. LCD Display (shows 13 functions)
5. Positive (red) Input and COM (black) Input
6. Data HOLD & PEAK Functions
7. Rotary Range Selector Switch
8. Auto-Ranging & A/Dc Zero Push-button

Accessories



Model CM605 includes test leads, soft carrying case, 2 1.5V AAA and user manual.

ORDERING INFORMATION	CATALOG NO.
Clamp-On Meter Model CM605	Cat. #7000.02

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