

Multi-purpose Clamp-On Meters

**Rugged • Accurate
Dependable • Safe
Affordable • Easy to Use**

Rugged and professional, our complete line of Clamp-on meters are designed and manufactured to the highest safety standards offering the most comprehensive set of measurement parameters available including:

AC and DC Voltage, AC and DC Current, Resistance, Continuity, Frequency, Diode Testing, InRush Current, Power Measurement (Real, Reactive and Apparent), THD, Crest Factor, Min/Max and Peak Capture, Phase Rotation, Temperature and more.

Data logging and wireless communication to a PC or Android™ application are available on several models.

AEMC® provides a solution to all your electrical measurement needs.



Our products are backed by over 100 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.

 **Technical Hotline: (800) 343-1391**
 **www.aemc.com**

 **AEMC®**
INSTRUMENTS
CHAUVIN ARNOUX GROUP

AC CURRENT METERS WITH FLEXIBLE SENSOR

Digital FlexProbe®

Models 400D & 4000D

Provide a welcomed solution when accessing electrical conductors in tight places



MiniFlex:
Model 400D-6 (6" probe)
Model 400D-10 (10" probe)



MiniFlex:
Model 4000D-14 (14" probe)
Model 4000D-24 (24" probe)



AmpFlex:
Model 400D-60 (60" probe)
Model 400D-120 (120" probe)



► SPECIFICATIONS

| MODEL | 400D | | |
|-------------------------|-----------------------------------------------------------------------------------------------------|----------------|----------------|
| ELECTRICAL | | | |
| Display Range | 4AAC | 40AAC | 400AAC |
| Measurement Range | 0.020 to 3.999A | 4.00 to 39.99A | 40.0 to 399.9A |
| Resolution | 1mA | 10mA | 100mA |
| Accuracy | ±(2% + 10cts) | ±(1.5% + 2cts) | ±(1.5% + 2cts) |
| Sensor Diameter | 400D-6: Ø 1.77" (45mm) / 400D-10: Ø 2.75" (70mm) / 400D-60: Ø 19" (483mm) / 400D-120: Ø 38" (965mm) | | |
| Sensor Length | 400D-6: 6" (170mm) / 400D-10: 10" (250mm) / 400D-60: 60" (1524mm) / 400D-120: 120" (3048mm) | | |
| Bandwidth | 10Hz to 3kHz | | |
| MODEL | 4000D | | |
| Display Range | 40AAC | 400AAC | 4000AAC |
| Measurement Range | 0.20 to 39.99A | 40.0 to 399.9A | 400 to 3999A |
| Resolution | 10mA | 100mA | 1A |
| Accuracy | ±(2% + 10cts) | ±(1.5% + 2cts) | ±(1.5% + 2cts) |
| Sensor Diameter | 4000D-14 : Ø 3.94" (100mm) / 4000D-24 : Ø 8" (190mm) | | |
| Sensor Length | 4000D-14: 14" (350mm) / 4000D-24: 24" (610mm) | | |
| Bandwidth | 10Hz to 3kHz | | |
| MECHANICAL | | | |
| Power Supply | 2 x 1.5V AAA / LR3 batteries | | |
| Operating Temperature | 32° to 122°F (0° to 50°C) | | |
| Weight | approx. 0.29lbs (130g) MiniFlex / 1.7lbs (771g) AmpFlex | | |
| Casing Dimensions | 3.94 x 2.36 x 0.79" (100 x 60 x 20mm) | | |
| Connection Cable Length | 6ft (1.8m) | | |
| Safety | IEC 61010, 600V CAT IV | | |

► FEATURES

- Easy access and measurement, even in confined spaces
- Measurement from 20mAac to 4000A (model dependent)
- Available with 6", 10", 14", 24", 60" and 120" sensor lengths
- Sensor diameter 1.77" to 38" (model dependent)
- Resolution down to 1mA (model dependent)
- HOLD feature
- Direct reading
- Compact and simple to use
- Flexible current sensor
- True RMS
- Safety rating of 600V CAT IV

► PRODUCT INCLUDES

Digital FlexProbe®, 2 AAA batteries and user manual.

| CATALOG NO. | DESCRIPTION |
|-------------------------------|------------------------------------------------------------------------------|
| 2153.30 | Digital FlexProbe® Model 400D-6 w/6' Lead (TRMS, 4Aac, 40Aac, 400Aac) |
| 2153.31 | Digital FlexProbe® Model 400D-10 w/6' Lead (TRMS, 4Aac, 40Aac, 400Aac) |
| 2153.32 | Digital FlexProbe® Model 4000D-14 w/6' Lead (TRMS, 40Aac, 400Aac, 4000Aac) |
| 2153.33 | Digital FlexProbe® Model 400D-60 w/6' Lead (TRMS, 4Aac, 40Aac, 400Aac) |
| 2153.34 | Digital FlexProbe® Model 400D-120 w/6' Lead (TRMS, 4Aac, 40Aac, 400Aac) |
| 2153.35 | Digital FlexProbe® Model 4000D-24 w/6' Lead (TRMS, 40Aac, 400Aac, 4000Aac) |
| Accessories (Optional) | |
| 5000.44 | MultiFix Multi-Position Magnetic Accessory (available on website storefront) |

CAT IV RATED CLAMP-ON METERS

200, 400 & 600 Series General Purpose Meters



*Models 203 & 205 only

► FEATURES

- 1000V CAT IV Rated (Models 403/603 & 405/605)
- UL 94 VI flame retardant self-extinguishing
- IP54 Rated
- 10,000-count (400 & 600 Series) and 6000 count (200 Series) blue electroluminescent backlit display
- Measures up to 1000VAC (1400V peak), 1000VDC and AC+DC with resolution to 10mV
- Measures up to 2000Aac and 3000Adc (model dependent)
- Measures single- and three-phase power (real, reactive and apparent) up to 3MW with resolution to 1W (model dependent)
- Measures W, VA, var and PF for 1 Φ & 3 Φ balanced systems (Models 205, 405 & 605)
- Measures frequency to 20kHz with 0.1Hz resolution
- Auto selects AC or DC measurement voltage
- True InRush® current measurement with 1mS capture
- Jaw opening up to 1.33" (34mm) (200 series), 1.89" (48mm) (400 series) and 2.36" (60mm) (600 series)
- K-thermocouple and adapter included (Models 203, 403 & 603)

Models 203/403/603 & 205/405/605

Users can be sure of working in a higher degree of safety with 1000V CAT IV rated meters (model dependent)



► SPECIFICATIONS

| MODELS | 203/403/603 TRMS | 205/405/605 TRMS |
|-----------------------------------------------------|----------------------|------------------------------------|
| ELECTRICAL | | |
| Current AC (rms) | 600/1000/2000A | 600/1000/2000A |
| Current DC | 900/1500/3000A | 900/1500/3000A |
| Current AC+DC | — | 900/1500/3000A |
| Voltage AC (rms) | 1000/1000/1000V | 1000/1000/1000V |
| Voltage DC | 1000/1000/1000V | 1000/1000/1000V |
| Voltage AC+DC | — | 1000/1000/1000V |
| Ohms | 60/100/100k Ω | 60/100/100k Ω |
| Continuity (Buzzer) | Yes (< 40 Ω) | Yes (< 40 Ω) |
| Diode Test | Yes | Yes |
| Total Harmonic Distortion | — | Yes |
| Single- and 3-Phase Real Power (AC, DC, AC/DC)* | — | 600/1000/2000kW 3000/6000kW |
| Single- and 3-Phase Reactive Power (AC, DC, AC/DC)* | — | 600/1000/2000kvar 3000/6000kvar |
| Single- and 3-Phase Apparent Power (AC, DC, AC/DC)* | — | 600/1000/2000kVA 3000/6000kVA |
| Temperature (int., ext., C°, F°) | Yes | — |
| Voltage Frequency (Hz) | 20kHz | 20kHz |
| Current Frequency (Hz) | 3/2/1kHz | 3/2/1kHz |
| Power Function (W, var, VA) | — | Yes |
| Power Factor | — | Yes |
| THD-r/THD-f | — | Yes |
| Adapter (AC/DC) | 0 to 6V | — |
| Phase Rotation | — | Yes (2 wire) |
| Auto AC/DC | Yes (V & A) | Yes (V & A) |
| Auto Power OFF | Yes | Yes |
| Hold Button | Yes | Yes |
| Backlight Button | Yes | Yes |
| Min/Max Button | Yes | Yes |
| True InRush® Function | Yes | Yes |
| Relative Function | Yes | Yes |
| Peak \pm Function | — | Yes |
| Hz Button | Yes | Yes |

*3-phase measurements assume balanced load

CATALOG NO. DESCRIPTION

| | |
|---------|------------------------------------------------------------------------------------------------------------------|
| 2139.12 | Clamp-On Meter Model 203 (TRMS, 1000VAC/DC, 600Aac/900Adc, Ohms, Continuity, Temperature) |
| 2139.40 | Power Clamp-On Meter Model 205 (TRMS, 1000VAC/DC, 600Aac/900Adc, Ohms, Continuity, Phase Rotation, Power, THD) |
| 2139.21 | Clamp-On Meter Model 403 (TRMS, 1000VAC/DC, 1000Aac/1500Adc, Ohms, Continuity, Temperature) |
| 2139.50 | Power Clamp-On Meter Model 405 (TRMS, 1000VAC/DC, 1000Aac/1500Adc, Phase Rotation, Ohms, Continuity, Power, THD) |
| 2139.31 | Clamp-On Meter Model 603 (TRMS, 1000VAC/DC, 2000Aac/3000Adc, Ohms, Continuity, Temperature) |
| 2139.60 | Power Clamp-On Meter Model 605 (TRMS, 1000VAC/DC, 2000Aac/3000Adc, Phase Rotation, Ohms, Continuity, Power, THD) |



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CAT IV RATED POWER CLAMP-ON METERS

400 & 600 Series *Bluetooth* Edition Power and Harmonic Meters

Models 407 & 607

Now available with Android™ mobile application



► SPECIFICATIONS

| MODELS | 407 TRMS | 607 TRMS |
|-----------------------------------------------------|----------------------|----------------------|
| ELECTRICAL | | |
| Current AC (rms) | 1000A | 2000A |
| Current DC | 1500A | 3000A |
| Current AC+DC | 1500A Peak | 3000A Peak |
| Voltage AC (rms) | 1000V | 1000V |
| Voltage DC | 1000V | 1000V |
| Voltage AC+DC | 1000V | 1000V |
| Ohms | 100kΩ | 100kΩ |
| Continuity (Buzzer) | Yes (< 40Ω) | Yes (< 40Ω) |
| Total Harmonic Distortion | Yes | Yes |
| Individual Harmonics (to 25 th) | Yes | Yes |
| Single- and 3-Phase Real Power (AC, DC, AC/DC)* | 1000kW 3000kW | 2000kW 6000kW |
| Single- and 3-Phase Reactive Power (AC, DC, AC/DC)* | 1000kvar 3000kvar | 2000kvar 6000kvar |
| Single- and 3-Phase Apparent Power (AC, DC, AC/DC)* | 1000kVA 3000kVA | 2000kVA 6000kVA |
| Voltage Frequency (Hz) | 20kHz | 20kHz |
| Current Frequency (Hz) | 2kHz | 1kHz |
| Power Function (W, var, VA) | Yes | Yes |
| Power Factor | Yes | Yes |
| THD-r/THD-f | Yes | Yes |
| Auto AC/DC | Yes (V & A) | Yes (V & A) |
| Auto Power OFF | Yes | Yes |
| Hold Button | Yes | Yes |
| Backlight Button | Yes | Yes |
| Min/Max Button | Yes | Yes |
| True InRush® Function | Yes | Yes |
| Peak ± Function | Yes | Yes |
| Harmonics Function | Yes | Yes |
| Rec (Record) Function | Yes | Yes |
| Wireless BT (Bluetooth) Function | Yes | Yes |
| Record (Recordings) | 1000 | 1000 |
| Hz Button | Yes | Yes |

*3-phase measurements assume balanced load

► PRODUCT INCLUDES

Models 407 & 607

Hard carrying case, set of two color-coded silicone test leads, test probes and alligator clips, Bluetooth USB adapter, four 1.5V AA batteries, safety information sheet, and USB drive supplied with DataView® software and user manual.



► FEATURES

- 1000V CAT IV Rated
- UL 94 VI flame retardant self-extinguishing
- IP54 Rated
- 10,000-count blue electroluminescent backlit display
- Measures up to 1000V_{AC} (1400V peak), 1000V_{DC} and AC+DC with resolution to 10mV
- Measures up to 2000A_{AC} and 3000A_{DC} (Model 607)
- Measures W, VA, var and PF for 1Φ & 3Φ balanced systems
- Measures single- and three-phase power (real, reactive and apparent) up to 3MW with resolution to 1W
- Measures frequency to 20kHz with 0.1Hz resolution
- Auto selects AC or DC measurement
- True InRush® current measurement with 1mS capture
- Measures harmonics up to the 25th
- Records up to 1000 measurements
- Bluetooth communication (communicates up to 30ft)
- Includes FREE DataView® software for download and report generation
- Jaw opening up to 1.89" (48mm) (400 series) and up to 2.36" (60mm) (600 series)

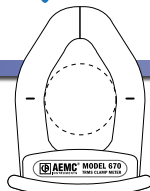
CATALOG NO. DESCRIPTION

| | |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2139.51 | Power Clamp-On Meter Model 407 (TRMS, 1000V _{AC} /DC, 1000A _{AC} /1500A _{DC} , Ohms, Continuity, Energy, Harmonics, Power, THD, Recording) |
| 2139.61 | Power Clamp-On Meter Model 607 (TRMS, 1000V _{AC} /DC, 2000A _{AC} /3000A _{DC} , Ohms, Continuity, Energy, Harmonics, Power, THD, Recording) |

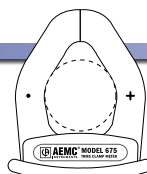


DUAL DISPLAY CLAMP-ON METERS

670 Series



Model 670
Jaw Opening: 1.65" (42mm)
Conductor Size: one 750kcmil cable or two 350kcmil cables



Model 675
Jaw Opening: 1.58" (40mm)
Conductor Size: one 750kcmil cable or two 350kcmil cables

Models 670 & 675

Dual display simultaneously measures and displays voltage and current!

SPECIFICATIONS

| MODELS | 670 TRMS | | | 675 TRMS | | |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|
| ELECTRICAL | | | | | | |
| AC Current | | | | | | |
| Measuring Range | 0.00 to 99.99A | 100 to 1000A | | 0.00 to 99.99A | 100 to 1000A | |
| Resolution | 0.01A | 0.1A | | 0.01A | 0.1A | |
| Accuracy | 1.5% of Reading ± 5 cts (50 to 60Hz) 2.0% of Reading ± 5 cts (60 to 500Hz) 4.5% of Reading ± 5 cts (500Hz to 3kHz) | | | 1.5% of Reading ± 5 cts (50 to 60Hz) 2.0% of Reading ± 5 cts (60 to 500Hz) 4.5% of Reading ± 5 cts (500Hz to 3kHz) | | |
| DC Current | | | | | | |
| Measuring Range | — | | | 0.00 to 99.99A | 100.0 to 999.9A | 1000 to 1400A |
| Resolution | — | | | 0.01A | 0.1A | 1A |
| Accuracy | — | | | 1.2% of Reading ± 5 cts | 2.5% of Reading ± 5 cts | 2.5% of Reading ± 5 cts |
| AC Voltage | | | | | | |
| Measuring Range | 0.0 to 999.9V | | | 0.0 to 999.9V | | |
| Resolution | 0.1V | | | 0.1V | | |
| Accuracy | 1.0% of Reading ± 5 cts (50 to 60Hz) 1.2% of Reading ± 5 cts (60 to 500Hz) 2.5% of Reading ± 5 cts (500Hz to 3kHz) | | | 1.0% of Reading ± 5 cts (50 to 60Hz) 1.2% of Reading ± 5 cts (60 to 500Hz) 2.5% of Reading ± 5 cts (500Hz to 3kHz) | | |
| Input Resistance | 1M Ω | | | 1M Ω | | |
| DC Voltage | | | | | | |
| Measuring Range | 0.0 to 999.9V | 1000 to 1400V | | 0.0 to 999.9V | 1000 to 1400V | |
| Resolution | 0.1V | 1V | | 0.1V | 1V | |
| Accuracy | 1% of Reading ± 2 cts | | | 1% of Reading ± 2 cts | | |
| Input Resistance | 1M Ω | | | 1M Ω | | |
| Resistance-Ohms (Ω) | | | | | | |
| Measuring Range | 0.0 to 999.9 Ω | 1000 to 9999 Ω | | 0.0 to 999.9 Ω | 1000 to 9999 Ω | |
| Resolution | 0.1 Ω | 1 Ω | | 0.1 Ω | 1 Ω | |
| Accuracy | 1% of Reading ± 3 cts, 3.3Vdc (Vmax) | | | 1% of Reading ± 3 cts, 3.3Vdc (Vmax) | | |
| Continuity (•••••) | | | | | | |
| Beeper Activation | < 35 Ω | | | < 35 Ω | | |
| Accuracy | 1% of Reading ± 3 cts, 3.3Vdc (Vmax) | | | 1% of Reading ± 3 cts, 3.3Vdc (Vmax) | | |
| Frequency (Hz) | | | | | | |
| Function | A - Hz | V - Hz | | A - Hz | V - Hz | |
| Range | 1000Hz | 10,000Hz | | 1000Hz | 10,000Hz | |
| Resolution | 0.1Hz | 1Hz | | 0.1Hz | 1Hz | |
| Accuracy | 1.0% of Reading ± 2 cts | | | 1.0% of Reading ± 2 cts | | |
| Temperature ($^{\circ}$ C/ $^{\circ}$ F) | | | | | | |
| Measuring Range | -40 $^{\circ}$ to 999.5 $^{\circ}$ C | 1000 $^{\circ}$ to 1200 $^{\circ}$ C | -40 $^{\circ}$ to 2192 $^{\circ}$ F | -40 $^{\circ}$ to 999.5 $^{\circ}$ C | 1000 $^{\circ}$ to 1200 $^{\circ}$ C | -40 $^{\circ}$ to 2192 $^{\circ}$ F |
| Resolution | 0.5 $^{\circ}$ C | 1 $^{\circ}$ C | 1 $^{\circ}$ F | 0.5 $^{\circ}$ C | 1 $^{\circ}$ C | 1 $^{\circ}$ F |
| GENERAL | | | | | | |
| Power Supply | One 9V, NEDA 1604 (6F22) Alkaline battery (included) | | | | | |
| Battery Life | (no buzzer or backlight) 35 hours | | | (no buzzer or backlight) 30 hours | | |
| MECHANICAL | | | | | | |
| Digital Display | 3 $\frac{3}{4}$ digits LCD dual display (max reading 9999) | | | 3 $\frac{3}{4}$ digits LCD dual display (max reading 9999) | | |
| Jaw Opening | 1.65" (42mm) | | | 1.58" (40mm) | | |
| ENVIRONMENTAL | | | | | | |
| Operating Temperature | *-14 $^{\circ}$ to 122 $^{\circ}$ F (-25 to 50 $^{\circ}$ C), 80% RH, non-condensing | | | *-14 $^{\circ}$ to 122 $^{\circ}$ F (-25 to 50 $^{\circ}$ C), 80% RH, non-condensing | | |



FEATURES

- Dual display
- Standard size, full function clamp-on meter
- 1000AAC/DC current measurements (DC current on Model 675 only)
- 1400VDC volt measurements
- TRMS measurements
- Resistance measurement to 10,000 Ω
- Continuity with beeper below 35 Ω
- Frequency measurements from V and A inputs
- 1ms peak function for fast capture of signals
- Hold function to "freeze" readings
- Designed to measure amps and volts at the same time
- Push-button for easy ADC zeroing
- Large, easy-to-read 10,000-count, backlit LCD display
- Includes test leads and soft carrying case



PRODUCT INCLUDES

Soft carrying case, set of test leads (red/black with safety needle tips), K-type thermocouple, one 9V battery and a user manual.

*Note: If the meter is to be used below 32 $^{\circ}$ F (0 $^{\circ}$ C), we suggest that the battery be replaced to ensure proper results.

CATALOG NO. DESCRIPTION

| | |
|---------|-----------------------------------------------------------------------------------------------------------------|
| 2117.49 | Clamp-On Meter Model 670 (Dual Display, TRMS, AC Amps, AC/DC Volts, Ohms, Continuity, Frequency, & Temperature) |
| 2117.50 | Clamp-On Meter Model 675 (Dual Display, TRMS, AC/DC Amps & Volts, Ohms, Continuity, Frequency & Temperature) |



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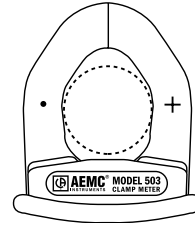
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COMPACT SIZE CLAMP-ON METERS

500 Series

Model 503

Small compact size clamp-meter that fits comfortably in a tool bag



Model 503

Jaw Opening: 1.1" (28mm)

Conductor Size: one 500kcmil cable



► SPECIFICATIONS

| MODEL | 503 |
|------------------------------------|----------------------------------------------------|
| AC Current (Auto-Ranging) | 0.05 to 400A |
| Resolution | 0.01A and 0.1A |
| Accuracy 50 to 60Hz 60 to 500Hz | ±1.5% of Reading ±10cts ±2.5% of Reading ±10cts |
| AC Voltage (Auto-Ranging) | 0.5 to 600V |
| Resolution | 0.1V and 1V |
| Accuracy 50 to 60Hz 60 to 500Hz | ±0.8% of Reading ±5cts ±1.5% of Reading ±5cts |
| Input Impedance | 10MΩ |
| DC Current (Auto-Ranging) | 0.10 to 400A |
| Resolution | 0.01A and 0.1A |
| Accuracy | ±2.5% of Reading ±10cts |
| DC Voltage (Auto-Ranging) | 0.2 to 600V |
| Resolution | 0.1V and 1V |
| Accuracy | ±1% of Reading ±2cts |
| Input Impedance | 10MΩ |
| Resistance | 0.2 to 400Ω |
| Accuracy | ±1% of Reading ±2cts |
| Max Test Voltage | 1.5Vdc |
| Continuity | <40Ω |
| Max Test Voltage | 1.5Vdc |
| Power Source | Two 1.5V AAA batteries (included) |



► FEATURES

- Compact size - fits into your pocket
- 400Aac or 400Aac/dc current measurements
- 600Vac/dc volts measurements
- Resistance measurements to 400Ω
- Continuity with beeper below 40Ω
- Hold function to “freeze” readings
- Push-button for easy A/Dc zeroing
- Large, easy-to-read 4000-count LCD display
- 42-segment analog bargraph
- Includes test leads and soft carrying pouch

► PRODUCT INCLUDES

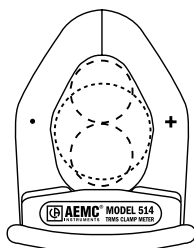
Soft carrying case, set of two test leads, two 1.5V AAA batteries and user manual.



| CATALOG NO. | DESCRIPTION |
|-------------|--------------------------------------------------------------------------|
| 2117.22 | Clamp-On Meter Model 503 (AC/DC, 400Aac/dc, 600Vac/dc, Ohms, Continuity) |

COMPACT SIZE CLAMP-ON METERS

500 Series



Models 512 & 514

Jaw Opening: 1.575" (40mm)
Conductor Size: one 750kcmil
cable or two 350kcmil cables



► FEATURES

- Standard size, full function clamp-on meter
- 1000AAC or 1000AAC/DC current measurements
- 750VAC or 1000VDC volt measurements
- TRMS measurements
- Resistance measurements to 4000Ω
- Continuity with beeper below 40Ω
- Frequency measurements from V and A
- Diode test
- 1ms peak function for fast capture of signals
- Hold function to “freeze” readings
- Push-button for easy ADC zeroing
- Large, easy-to-read, 4000-count LCD display
- 42-segment analog bargraph
- Includes test leads, soft carrying pouch and batteries

**Note: If Model 514 is to be used below 32°F (0°C), we suggest that the battery be replaced to ensure proper results.*

► SPECIFICATIONS

| MODELS | 512 TRMS | 514 TRMS |
|----------------------------------|-------------------------------------------------------|----------------------------------------------------------|
| AC Current (Auto-Ranging) | 0.05 to 1000Arms | 0.05 to 1000Arms |
| Resolution | 0.01A, 0.1A and 1A | 0.01A, 0.1A and 1A |
| Accuracy | 50 to 60Hz 60 to 500Hz | 1.9% of Reading ±5cts 1.9% of Reading ±5cts |
| AC Voltage (Auto-Ranging) | 0.5 to 750Vrms | 0.5 to 750Vrms |
| Resolution | 0.1V and 1V | 0.1V and 1Vrms |
| Accuracy | 60 to 500Hz | 1.5% of Reading ±5cts |
| Input Impedance | 10MΩ | 10MΩ |
| DC Current (Auto-Ranging) | — | 1A to 1000A |
| Resolution | — | 0.01A, 0.1A and 1A |
| Accuracy | — | ±2.5% of Reading ±10cts |
| DC Voltage (Auto-Ranging) | 0.2 to 1000V | 0.2 to 1000V |
| Resolution | 0.1V and 1V | 0.1V and 1Vrms |
| Accuracy | 0.75% of Reading ±2cts | 1% of Reading ±2cts |
| Input Impedance | 10MΩ | 10MΩ |
| Resistance | 0.2 to 4000Ω | 0.2 to 4000Ω |
| Accuracy | 1% of Reading ±2cts | 1% of Reading ±2cts |
| Max Test Voltage | 3Vdc | 3Vdc |
| Diode Test | 0.6mA | 1.7mA |
| Open Circuit Voltage | 3Vdc | 3Vdc |
| Continuity | <40Ω | <40Ω |
| Max Test Voltage | 3Vdc | 3Vdc |
| Frequency (Auto-Ranging) | | |
| CURRENT INPUT | | |
| Range | 4kHz 10kHz | 1Hz Resolution 10Hz Resolution |
| Accuracy | 20Hz to 10kHz | 0.1% of Reading ±1ct |
| Min Input Signal | 4kHz 10kHz | 2Arms 5Arms |
| VOLTAGE INPUT | | |
| Range | 4kHz 10kHz | 1Hz Resolution 10Hz Resolution |
| Accuracy | 10Hz to 10kHz | 0.1% of Reading ±1ct |
| Min Input Signal | 4kHz 10kHz | 5Vrms 10Vrms |
| Power Source | 9V Alkaline battery (included) | |
| ENVIRONMENTAL | | |
| Operating Temperature | 32° to 104°F (0° to 40°C) < 80% RH, non-condensing | *-14° to 122°F (-25° to 50°C), 80% RH, non-condensing |



► PRODUCT INCLUDES

Soft carrying case, set of two test leads, 9V battery and user manual.

| CATALOG NO. | DESCRIPTION |
|-------------|------------------------------------------------------------------------------------------|
| 2117.68 | Clamp-On Meter Model 512 (TRMS, 1000AAC, 750VAC/1000VDC, Ohms, Continuity, Hz) |
| 2117.70 | Clamp-On Meter Model 514 (AC/DC, TRMS, 1000AAC/DC, 750VAC/1000VDC, Ohms, Continuity, Hz) |



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GENERAL INDUSTRIAL GRADE CLAMP-ON METERS

100Aac/dc Low Current



Model CM605

For general industrial monitoring and troubleshooting

SPECIFICATIONS

| MODEL | CM605 |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ELECTRICAL | |
| AC Current | |
| Measurement Ranges | 2 Ranges: 10A, 100A |
| Accuracy & Resolution | 10A: 2.0% of Reading ± 10 cts - 1mA Resolution 80A: 2.0% of Reading ± 10 cts - 10mA Resolution > 80A: 3.5% of Reading ± 10 cts - 10mA Resolution |
| Frequency Range | 2 Ranges: 50 to 500Hz |
| DC Current (positive only) | |
| Measurement Ranges | 2 Ranges: 10A, 100A |
| Accuracy & Resolution | 10A: 2.5% of Reading ± 10 cts - 1mA Resolution 80A: 2.5% of Reading ± 10 cts - 10mA Resolution > 80A: 4.5% of Reading ± 10 cts - 10mA Resolution |
| AC Volts | |
| Measurement Ranges | 600Vrms |
| Accuracy & Resolution | 1.5% of Reading ± 5 cts - 100mV Resolution |
| Frequency | 40 to 500Hz |
| Input Impedance | 10M Ω , < 50pF |
| DC Volts (positive only)* | |
| Measurement Ranges | 600V |
| Accuracy & Resolution | 1.0% of Reading ± 2 cts - 100mV Resolution |
| Input Impedance | 10M Ω |
| Resistance (Ohms) | |
| Measurement Ranges | 10k Ω (9999 Ω) |
| Accuracy & Resolution | 1.0% of Reading ± 3 cts - 1 Ω Resolution |
| Test Voltage | < 3.0Vdc |
| Continuity | |
| Measurement Ranges | Buzzer < 100 Ω $\pm 25\Omega$ |
| Resolution | 1 Ω |
| Test Voltage | < 3.0Vdc |
| Analog Output | |
| Output | 10mV/Aac & Apc through front banana jacks |
| Frequency | 0 to 20kHz @ ± 3 db |
| Output Impedance | 3k Ω , < 50pF |
| Other Functions | |
| Apc Zero & Relative Function | One touch push button (Δ ZERO Button) to Zero Apc, 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 Power OFF | Auto Power OFF after approx 10 minute with Over-Ride |
| Low Battery | Low Battery indication on LCD |
| MECHANICAL | |
| Max. Cable Diameter | \varnothing 0.45" (12mm) |
| Max. Jaw Opening | \varnothing 0.60" (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) – 6.5oz (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 |

*For negative measurement, add 2cts to the accuracy

PRODUCT INCLUDES

Soft carrying case, set of two test leads, two 1.5V AAA batteries and user manual.



FEATURES

- 10,000-count LCD display - excellent resolution
- 100Aac/dc Ammeter with low 10A range (1mA resolution)
- Tapered jaws for crowded wiring areas:
Jaw opening: \varnothing 0.60" - 15mm
Cable diameter: \varnothing 0.45" - 12mm
- 600VAC/DC voltmeter
- Analog output in AAC/DC to data loggers, etc
- Auto-ranging & ADC zero push-button
- Data HOLD & PEAK functions
- Relative function to compare two measurements
- Ohm range & continuity test with beeper
- Auto Power OFF and low battery indicator
- IEC/EN 61010 safety rated & CE mark
- 600Vrms overload protection

| CATALOG NO. | DESCRIPTION |
|-------------|-----------------------------------------------------|
| 7000.02 | Clamp-On Meter Model CM605 (100Aac/dc, Low Current) |

LEAKAGE CURRENT METER

TRMS Clamp-On Leakage Current Meter



Model 565

Designed to measure low AC currents, which are typically leakage currents in ground conductors

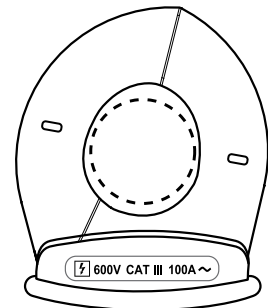
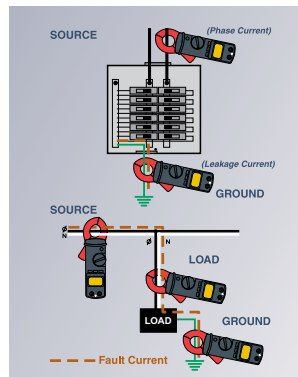
SPECIFICATIONS

| MODEL | | 565 TRMS | |
|-------------------------------------------|---------------|---------------------------------------------------|------------|
| mA AC Current (TRMS, Auto-Ranging) | | 0 to 600mA | |
| Resolution | 60mA | 0.01mA (10 μ A) | |
| | 600mA | 0.1mA (100 μ A) | |
| | | | |
| Accuracy | 50 to 60Hz | 1.2% of Reading \pm 5cts | |
| | 50 to 500Hz | 2.5% of Reading \pm 5cts | |
| | 500Hz to 3kHz | 3.5% of Reading \pm 10cts | |
| AC Current (TRMS, Auto-Ranging) | | 10 to 100A | |
| Resolution | 10A | 0.001A (1mA) | |
| | 100A | 0.01A (10mA) | |
| | | | |
| Accuracy | 50 to 60Hz | 1.0% of Reading \pm 5cts | |
| | 50 to 500Hz | 1.2% of Reading \pm 5cts | |
| | 500Hz to 3kHz | 2.5% of Reading \pm 10cts | |
| AC Voltage (TRMS) | | 0 to 600V | |
| Accuracy | 50 to 60Hz | 1.0% of Reading \pm 5cts | |
| | 50 to 500Hz | 1.2% of Reading \pm 5cts | |
| | 500Hz to 3kHz | 2.5% of Reading \pm 10cts | |
| DC Voltage | | 0 to 600V | |
| Resolution | | 0.1V | |
| | | | |
| | | | |
| Accuracy | | 1.0% of Reading \pm 3cts | |
| | | | |
| | | | |
| Resistance | | 0 to 1k Ω | |
| Accuracy | | 1.0% of Reading \pm 3cts | |
| | | | |
| | | | |
| Continuity | | Buzzer activates <35 Ω (0 to 1k Ω) | |
| Frequency (Auto-Ranging) | | | |
| Function | | A-Hz | V-Hz |
| | | 0.1Hz | 0.1Hz |
| | | 1Hz | 1Hz |
| Resolution | 0 to 100Hz | | |
| | 100Hz to 1kHz | | |
| | | | |
| Sensitivity | | 10mA rms min | 5V rms min |
| | | | |
| | | | |
| Accuracy | | 0.5% of Reading \pm 2cts | |
| | | | |
| | | | |
| Filter | | On (50/60Hz only); Off (Full frequency range) | |
| In-Rush | | Max 100mS sample time | |
| Power Source | | Two 1.5V AAA batteries (included) | |



FEATURES

- Check for leakage and locate insulation breakdowns on live circuits
- Measures leakage current down to 0.1mA with up to 10 μ A resolution
- Measures current up to 100Arms
- Measures up to 600V_{AC/DC}
- Measures Hz on either V or A inputs
- Measures resistance and continuity
- Hold feature freezes value
- Max feature keeps track of highest measured in-rush value
- Zero button ideal for measuring relative values
- Filter to isolate 50/60Hz fundamental from harmonics
- Compatible with VDE 0404
- Backlight LCD display



Jaw Opening: 1.10" (28mm)
Conductor Size: 1" (26mm)



PRODUCT INCLUDES

Two color-coded 5ft test leads, carrying case, batteries and user manual.

| CATALOG NO. | DESCRIPTION |
|-------------|-------------|
|-------------|-------------|

2117.56

Clamp-On Leakage Current Meter Model 565 (TRMS, 60mA, 600mA, 10A, 100A, 600V_{AC/DC}, Hz, Ohms, Continuity)



Technical Assistance (800) 343-1391

www.aemc.com 9

SELECTION CHART

| MODELS | Type | AC Current | AC Voltage | DC Current | DC Voltage | Resistance (Ω) |
|--------|------------|---------------------------|-------------|--------------|---------------|-------------------------|
| 203 | AC/DC TRMS | 600A | 1000V | 900A | 1000V | 60k Ω |
| 205 | AC/DC TRMS | 600A | 1000V | 900A | 1000V | 60k Ω |
| 403 | AC/DC TRMS | 1000A | 1000V | 1500A | 1000V | 100k Ω |
| 405 | AC/DC TRMS | 1000A | 1000V | 1500A | 1000V | 100k Ω |
| 407 | AC/DC TRMS | 1000A | 1000V | 1500A | 1000V | 100k Ω |
| 603 | AC/DC TRMS | 2000A | 1000V | 3000A | 1000V | 100k Ω |
| 605 | AC/DC TRMS | 2000A | 1000V | 3000A | 1000V | 100k Ω |
| 607 | AC/DC TRMS | 2000A | 1000V | 3000A | 1000V | 100k Ω |
| 400D | AC | 0.020 to 400A | – | – | – | – |
| 4000D | AC | 0.20 to 4000A | – | – | – | – |
| 503 | AC/DC | 0.05 to 400A | 0.5 to 600V | 0.10 to 400A | 0.2 to 600V | 400 Ω |
| 512 | AC TRMS | 0.05 to 1000A | 0.5 to 750V | – | 0.2 to 1000V | 4000 Ω |
| 514 | AC/DC TRMS | 0.05 to 1000A | 0.5 to 750V | 1 to 1000A | 0.2 to 1000V | 4000 Ω |
| 565 | AC TRMS | 0 to 600mA; 10 to 100A | 0 to 600V | – | 0 to 600V | 0 to 1k Ω |
| CM605 | AC/DC | 1mA to 100A | 600Vrms | 1mA to 100A | 600V | 0 to 9999 Ω |
| 670 | AC TRMS | 0 to 1000A | 0 to 1000V | – | 1000 to 1400V | 1000 to 10,000 Ω |
| 675 | AC/DC TRMS | 0 to 1000A | 0 to 1000V | 0 to 1400A | 0 to 1400V | 0 to 9999 Ω |

| MODELS | Continuity | Frequency (Hz) | | True RMS | Jaw Size | Dimensions | Catalog No. |
|--------|-----------------------|----------------|---------------|----------|------------------------------------------------------------------------------------------------|----------------------|------------------------------------------|
| | | Current | Voltage | | | | |
| 203 | <40Ω | 3kHz | 20kHz | ✓ | 1.33" (34mm) | 8.7 x 3.1 x 1.65" | 2139.12 |
| 205 | <40Ω | 3kHz | 20kHz | ✓ | 1.33" (34mm) | 8.7 x 3.1 x 1.65" | 2139.40 |
| 403 | <40Ω | 2kHz | 20kHz | ✓ | 1.89" (48mm) | 10.7 x 3.6 x 1.6" | 2139.21 |
| 405 | <40Ω | 2kHz | 20kHz | ✓ | 1.89" (48mm) | 10.7 x 3.6 x 1.6" | 2139.50 |
| 407 | <40Ω | 2kHz | 20kHz | ✓ | 1.89" (48mm) | 10.7 x 3.6 x 1.6" | 2139.51 |
| 603 | <40Ω | 1kHz | 20kHz | ✓ | 2.36" (60mm) | 11.65 x 4.37 x 1.61" | 2139.31 |
| 605 | <40Ω | 1kHz | 20kHz | ✓ | 2.36" (60mm) | 11.65 x 4.37 x 1.61" | 2139.60 |
| 607 | <40Ω | 1kHz | 20kHz | ✓ | 2.36" (60mm) | 11.65 x 4.37 x 1.61" | 2139.61 |
| 400D | — | 10Hz to 3kHz | — | ✓ | 400D-6: 1.77" (45mm) 400D-10: 2.75" (70mm) 400D-60: 19" (483mm) 400D-120: 38" (965mm) | 3.94 x 2.36 x 0.79" | 2153.30 2153.31 2153.33 2153.34 |
| 4000D | — | 10Hz to 3kHz | — | ✓ | 4000D-14: 3.94" (100mm) 4000D-24: 8" (190mm) | 3.94 x 2.36 x 0.79" | 2153.32 2153.35 |
| 503 | <40Ω | — | — | — | 1.1" (28mm) | 7.60 x 1.97 x 1.1" | 2117.22 |
| 512 | <40Ω | 20Hz to 10kHz | 10Hz to 10kHz | ✓ | 1.58" (40mm) | 9.53 x 2.60 x 1.42" | 2117.68 |
| 514 | <40Ω | 20Hz to 10kHz | 10Hz to 10kHz | ✓ | 1.58" (40mm) | 9.53 x 2.60 x 1.42" | 2117.70 |
| 565 | 0 to 1kΩ | 0 to 1kHz | 0 to 1kHz | ✓ | 1.1" (28mm) | 8.5 x 2.5 x 1.18" | 2117.56 |
| CM605 | Buzzer <100Ω ± 25Ω | 50 to 500Hz | 40 to 500Hz | — | 0.60" (15mm) | 7.95 x 2.76 x 1.33" | 7000.02 |
| 670 | <35Ω | 1000Hz | 10,000Hz | ✓ | 1.65" (42mm) | 10.71 x 3.15 x 1.69" | 2117.49 |
| 675 | <35Ω | 1000Hz | 10,000Hz | ✓ | 1.58" (40mm) | 10.12 x 3.15 x 1.69" | 2117.50 |

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