

# CLAMP-ON METERS

200, 400 & 600 SERIES

GENERAL PURPOSE METERS

## MODELS 403/603 & 205/405

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

## SPECIFICATIONS

MODELS	403/603 TRMS	205/405 TRMS
<b>ELECTRICAL</b>		
Current AC (rms)		(600 / 1000) A
Current DC		(900 / 1500) A
Current AC+DC	–	(900 / 1500) A
Voltage AC (rms)		(1000 / 1000) V
Voltage DC		(1000 / 1000) V
Voltage AC+DC	–	(1000 / 1000) V
Ohms		(60 / 100) kΩ
Continuity (Buzzer)		Yes (< 40 Ω)
Diode Test		Yes
THD	–	Yes (model 405)
Single- and 3-Phase Real Power (AC, DC, AC/DC)*	–	(600 / 1000) kW
Single- and 3-Phase Reactive Power (AC, DC, AC/DC)*	–	(600 / 1000) kvar
Single- and 3-Phase Apparent Power (AC, DC, AC/DC)*	–	(600 / 1000) kVA
Temperature (int., ext., °C, °F)	Yes	–
Voltage Frequency		20 kHz
Current Frequency		(3 / 2 / 1) kHz
Power Factor	–	Yes
THD-r / THD-f	–	Yes / Yes
Current Probe Adapter Function (AC/DC)	(0 to 10) V	–
Phase Rotation	–	Yes (2 wire)
Auto AC/DC		Yes (V & A)
Auto Power OFF		Yes
Hold Button		Yes
Backlight Button		Yes
Min/Max Button		Yes
True InRush® Function		Yes
Relative Function		Yes
Peak ± Function	–	Yes
Hz Button		Yes

\*Three-phase measurements assume balanced load  
Consult factory for NIST Calibration prices



## FEATURES

- 1000 V CAT IV Rated (Models 403, 603 & 405)
- UL 94 VI flame retardant self-extinguishing
- 10,000-count (400 & 600 series) and 6000 count (200 series) blue electroluminescent backlit display
- Measures up to 1000 V<sub>AC</sub> (1400 V peak), 1000 V<sub>DC</sub> and AC+DC with resolution to 10 mV
- Measures up to 2000 A<sub>AC</sub> and 3000 A<sub>DC</sub> (Model dependent)
- Measures W, VA, var and PF for single- and three-phase balanced systems (Models 205 & 405)
- Measures frequency to 20 kHz with 0.1 Hz resolution
- Auto selects AC or DC measurement voltage
- True InRush® current measurement with 100 mS capture
- Jaw opening up to: 1.34 in (34 mm) (200 series), 1.89 in (48 mm) (400 series), 2.36 in (60 mm) (600 series)
- K-thermocouple and adapter included (Models 403 & 603)

## PRODUCT INCLUDES

**Catalog #2139.21, #2139.31** Includes set of (2) color-coded silicone insulated test leads, test probes and alligator clips, K-thermocouple with 4 mm integrated adapter, soft carrying case, (4) 1.5 V AA batteries, and user manual.

**Catalog #2139.40** Includes set of (2) 5 ft (1.5 m) needle tip color-coded leads with 4 mm right angle plug, soft carrying case, (1) 9 V battery and user manual.

**Catalog #2139.50** Includes set of (2) color-coded silicone insulated test leads, test probes and alligator clips, soft carrying case, (4) 1.5 V AA batteries and user manual

CATALOG NO.	DESCRIPTION
2139.21	Clamp-On Meter Model 403 (TRMS, 1000 V <sub>AC/DC</sub> , 1000 A <sub>AC</sub> /1500 A <sub>DC</sub> , Ohms, Continuity, Temperature)
2139.31	Clamp-On Meter Model 603 (TRMS, 1000 V <sub>AC/DC</sub> , 2000 A <sub>AC</sub> /3000 A <sub>DC</sub> , Ohms, Continuity, Temperature)
2139.40	Power Clamp-On Meter Model 205 (TRMS, 1000 V <sub>AC/DC</sub> , 600 A <sub>AC</sub> /900 A <sub>DC</sub> , Ohms, Continuity, Phase Rotation, Power, THD)
2139.50	Power Clamp-On Meter Model 405 (TRMS, 1000 V <sub>AC/DC</sub> , 1000 A <sub>AC</sub> /1500 A <sub>DC</sub> , Phase Rotation, Ohms, Continuity, Power, THD)

# CLAMP-ON METERS

## SELECTION GUIDE

Models	Catalog Number	Type	AC Current	AC Voltage	DC Current	DC Voltage	Resistance ( $\Omega$ )	Continuity	Frequency (Hz)		Jaw Size	Dimensions
									Current	Voltage		
205	2139.40	AC/DC TRMS	600 A	1000 V	900 A	1000 V	60 k $\Omega$	< 40 $\Omega$	3 kHz	20 kHz	1.34 in (34 mm)	(8.7 x 3.1 x 1.65) in
403	2139.21	AC/DC TRMS	1000 A	1000 V	1500 A	1000 V	100 k $\Omega$	< 40 $\Omega$	2 kHz	20 kHz	1.89 in (48 mm)	(10.7 x 3.6 x 1.6) in
405	2139.50	AC/DC TRMS	1000 A	1000 V	1500 A	1000 V	100 k $\Omega$	< 40 $\Omega$	2 kHz	20 kHz	1.89 in (48 mm)	(10.7 x 3.6 x 1.6) in
407	2139.51	AC/DC TRMS	1000 A	1000 V	1500 A	1000 V	100 k $\Omega$	< 40 $\Omega$	2 kHz	20 kHz	1.89 in (48 mm)	(10.7 x 3.6 x 1.6) in
603	2139.31	AC/DC TRMS	2000 A	1000 V	3000 A	1000 V	100 k $\Omega$	< 40 $\Omega$	1 kHz	20 kHz	2.36 in (60 mm)	(11.65 x 4.37 x 1.61) in
607	2139.61	AC/DC TRMS	2000 A	1000 V	3000 A	1000 V	100 k $\Omega$	< 40 $\Omega$	1 kHz	20 kHz	2.36 in (60 mm)	(11.65 x 4.37 x 1.61) in
505	2139.82	AC/DC TRMS	400 A	600 V	400 A	600 V	600 $\Omega$	< 35 $\Omega$	400 Hz	400 Hz	1.18 in (30 mm)	(7.83 x 2.95 x 1.42) in
514	2117.70	AC/DC TRMS	1000 A	750 V	1000 A	1000 V	4000 $\Omega$	< 40 $\Omega$	10 kHz	10 kHz	1.58 in (40 mm)	(9.53 x 2.60 x 1.42) in
566*	2139.83	AC TRMS	100 A	600 V	–	600 V	600 k $\Omega$	< 45 $\Omega$	500 Hz	500 Hz	0.91 in (23 mm)	(8.27 x 3.0 x 1.32) in
CM605	7000.02	AC/DC	100 A	600 V	100 A	600 V	9999 $\Omega$	< 100 $\Omega$	500 Hz	500 Hz	0.60 in (15 mm)	(7.95 x 2.76 x 1.33) in

\*Model 566 can be found in the Leakage Current Meters & Probes on Page 80  
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