APPA 130 SERIES CLAMP MULTIMETERS

FEATURES:	APPA 133	APPA 135	APPA 136	APPA 137	APPA 138
Digital display	10000 count	10000 count	10000 count	10000 count	10000 count
Analog bar graph	60 segments	60 segments	60 segments	60 segments	60 segments
True RMS measuring	AC+DC	AC+DC	AC+DC	AC+DC	AC+DC
Auto AC/DC detection	·	·	·	·	·
Smart Data hold	·	·	·	·	·
Min/Max function	·	·	·	·	·
Peak hold	·	·	·	·	·
Inrush Current measurement	·	·	·	·	·
DCA zeroing	NA	NA	·	NA	·
Low Pass Filter	·	·	·	·	·
Frequency counter	·	·	·	·	·
Power and Power Factor measurement	·	·	·	·	·
Total Harmonic Distortion	·	·	·	·	·
Harmonics	·	·	·	·	·
Phase Rotation	·	·	·	·	·
Temperature measurement	NA	·	NA	NA	·
Capacitance	·	·	·	·	·
Audible continuity and Diode test	·	·	·	·	·
Backlight	·	·	·	·	·
Torch Lighting	·	·	·	·	·
VoltSense™ (None Contact Voltage)	·	·	·	·	·
Automatic power shut off	·	·	·	·	·
Shock proof from 4 feet drops	·	·	·	·	·
Standard full-sleeve safety test leads	·	·	·	·	·
Deluxe carrying case	·	·	·	·	·

SPECIFICATIONS:(All at 23℃±5℃, ≦80% R.H.)

ACA:	Ranges	100.00A, 600.0A	100.00A, 600.0A	100.00A, 600.0A	100.00A, 1000.0A	100.00A, 1000.0A
	Resolution	0.01A	0.01A	0.01A	0.01A	0.01A
	Basic Accuracy: ±(1.5%+5d) at 50Hz~500Hz	·	·	·	·	·
	Conversion Type	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS
DCA:	Ranges	NA	NA	100.00A, 600.0A	NA	100.00A, 1000.0A
	Resolution			0.01A		0.01A
	Basic Accuracy			±(1.5%+5d)		±(1.5%+5d)
DCμA:	Ranges	NA	1000.0μA	NA	NA	NA
	Resolution		0.1μA			
	Basic Accuracy		±(1.7%+2d)			
AC+DC A:	Ranges	NA	NA	100.00A, 600.0A	NA	100.00A, 1000.0A
	Resolution			0.01A		0.01A
	Basic Accuracy			Same as ACA+(1.5%+5d)		Same as ACA+(1.5%+5d)
ACV:	Ranges	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
	Resolution	0.01V	0.01V	0.01V	0.01V	0.01V
	Basic Accuracy: ±(1.0%+5d) at 50Hz~500Hz	·	·	·	·	·
	Input Impedance:3.5MΩ	·	·	·	·	·
	Overload Protection: 1000V rms	·	·	·	·	·
	Conversion Type	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS
DCV:	Ranges	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
	Resolution	0.01V	0.01V	0.01V	0.01V	0.01V
	Basic Accuracy: ±(0.7%+2d)	·	·	·	·	·
	Input Impedance:3.5MΩ	·	·	·	·	·
	Overload Protection: 1000V rms	·	·	·	·	·
AC+DC V:	Ranges	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
	Resolution	0.01V	0.01V	0.01V	0.01V	0.01V
	Basic Accuracy: Same as ACV+(1.0%+5d)	·	·	·	·	·
	Input Impedance:3.5MΩ	·	·	·	·	·
	Overload Protection: 1000V rms	·	·	·	·	·
Watt:	Ranges	10KW~600KW	10KW~600KW	10KW~600KW	10KW~1MW	10KW~1MW
	Resolution	1W	1W	1W	1W	1W
	Basic Accuracy: ±(2.5%+5d)	·	·	·	·	·
P.F.:	Ranges	-1.00~1.00	-1.00~1.00	-1.00~1.00	-1.00~1.00	-1.00~1.00
	Resolution	0.01	0.01	0.01	0.01	0.01
	Basic Accuracy	±3°	±3°	±3°	±3°	±3°
T.H.D.:	Ranges	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%
	Resolution	0.1%	0.1%	0.1%	0.1%	0.1%
	Basic Accuracy: ±(3.0%+10d)	·	·	·	·	·
Harmonics:	Ranges	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%
	Resolution	0.1%	0.1%	0.1%	0.1%	0.1%
	Basic Accuracy: ±(5.0%+10d) for order 1~12, ±(10.0%+10d) for order 13~25	·	·	·	·	·
OHM:	Ranges	1.0000KΩ, 10.00KΩ, 100.00KΩ	1.0000KΩ, 10.00KΩ, 100.00KΩ	1.0000KΩ, 10.00KΩ, 100.00KΩ	1.0000KΩ, 10.00KΩ, 100.00KΩ	1.0000KΩ, 10.00KΩ, 100.00KΩ
	Resolution	0.01Ω	0.01Ω	0.01Ω	0.01Ω	0.01Ω
	Basic Accuracy: ±(1.0%+3d)	·	·	·	·	·
	Overload Protection: 1000V rms	·	·	·	·	·
Continuity Beeper:	<30Ω, 2KHz tone buzzer	·	·	·	·	·
Diode Test:	Open circuit voltage: ±1.8V max	·	·	·	·	·
Capacitance	Ranges	400.0μF, 4,000mF	400.0μF, 4,000mF	400.0μF, 4,000mF	400.0μF, 4,000mF	400.0μF, 4,000mF
	Resolution	0.1μF	0.1μF	0.1μF	0.1μF	0.1μF
	Basic Accuracy: ±(1.9%+8d)	·	·	·	·	·
	Overload Protection: 1000V rms	·	·	·	·	·
Frequency Counter:	Ranges	20.0Hz~10KHz	20.0Hz~10KHz	20.0Hz~10KHz	20.0Hz~10KHz	20.0Hz~10KHz
	Resolution	0.1Hz	0.1Hz	0.1Hz	0.1Hz	0.1Hz
	Basic Accuracy: ±(0.5%+3d)	·	·	·	·	·
Temperature:	Ranges	NA	-50 ℃~1000 ℃	NA	NA	-50 ℃~1000 ℃
	Resolution		0.1 ℃			0.1℃
	Basic Accuracy		±(1%+1℃)			±(1%+1℃)
	Overload Protection: 1000V rms		·			·

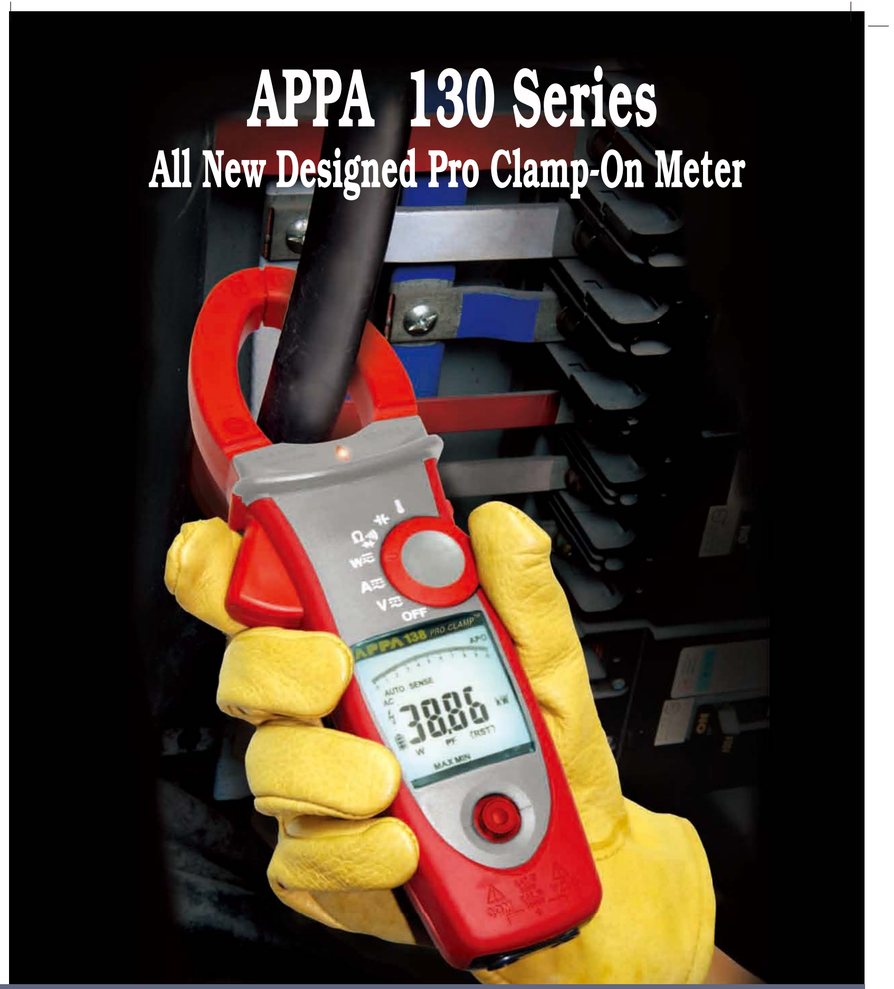
GENERAL:

Sampling Rate	3times/sec	3times/sec	3times/sec	3times/sec	3times/sec
Overload Indication	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"
Low Battery Indication	▯	▯	▯	▯	▯
Auto Power Off: Approx. 15 minutes	·	·	·	·	·
Operating Temperature: 0 ℃~50℃, ≦80% RH	·	·	·	·	·
Storage Temperature: -20 ℃~60 ℃	·	·	·	·	·
Temperature Coefficient: 0.2(Spec. Acc) /℃, <18 ℃ or >28 ℃	·	·	·	·	·
Safety: IEC 61010 and designed to meet UL61010 specifications	CAT. IV 600V CAT. III 1000V	CAT. IV 600V CAT. III 1000V	CAT. IV 600V CAT. III 1000V	CAT. IV 600V CAT. III 1000V	CAT. IV 600V CAT. III 1000V
Maximum Conductor Size	37mm dia. (750MCM)	37mm dia. (750MCM)	37mm dia. (750MCM)	42 mm dia. (1000MCM)	42mm dia. (1000MCM)
Maximum Jaw Opening	45mm	45mm	45mm	45mm	45mm
Maximum Busbar Size	45x10mm	45x10mm	45x10mm	62x12mm	62x12mm
Power Requirement: Single 9V battery (NEDA 1604A or IEC 6LF22)	·	·	·	·	·
Battery Life: In hours (Alkaline battery)	100	100	100	100	100
Size: 87.5mm(W) x 242 mm(L) x 50.5 mm(H) 87.5mm(W) x 257mm(L) x 50.5 mm(H)	·	·	·	·	·
Weight: In grams (with battery)	435	435	435	470	470
Included with instrument: Test Leads, ZnC battery (installed) manual and carrying case	·	(Also Including Temperature Probe)	·	·	(Also Including Temperature Probe)

Specification subject to change without notice.

APPA 130 Series

All New Designed Pro Clamp-On Meter



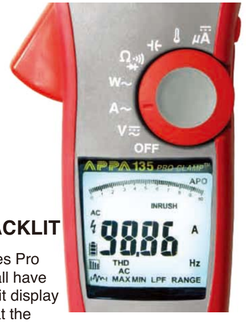
Distributed by:

APPA TECHNOLOGY CORPORATION
9F, 119-1 Pao-Zong Rd., Shintien, Taipei, 231, TAIWAN
Tel: +886-2-29178820 Fax: +886-2-29170848
E-mail: info@appatech.com · http://www.appatech.com
ISO 9001 CERTIFIED

APPA®
Advanced Instrument Technology Made Easy

AUTOMATIC SELECTION

Automatically detect AC, DC and AC+DC of Ampere and Voltage function with AC+DC True RMS, and automatically selection of resistance, continuity and diode.



ACTIVE BACKLIT

APPA 130 series Pro clamp meters all have an active backlit display that turns ON at the touch of a button or rotate the knob, also automatically goes off to save battery life.

INNOVATIVE LIGHTENING AND LIVE VOLTAGE SENSING

Torch lightening during cable clamping and automatically non contact voltage detection for better identification of working environment.

INNOVATIVE NAVIGATOR

Innovative designed navigator key optimized the function selection and feature operation with a finger of thumb.

EXTRA TEMPERATURE FEATURE

Special designed temperature test facility for daily industrial temperature measurement application. (135 &138)

ADVANCED POWER FEATURES MADE EASY

Every APPA 130 series Pro clamp meter provides advanced Power features, Phase rotation,Total Harmonics Distortion and even Harmonics 1 to 25th with easy-to-use interface, which enables fully professional power measurement application with excellent performance.

OVER-MOLDING SLIM DESIGN

Ergonomically designed comfort over-molding slim shape with extra large LCD, one hand operated knob and navigator. Just fit the palm of your hand and your needs.

APPA 133

10000 Count digital display
Active Backlit, Large scale display
Analog Bar graph
True RMS reading on AC and AC+DC mode
Torch lightening when clamping
AC 600 Amps capability
Auto AC/DC 1000 Volts capability and selection
Auto Ohms/Continuity/Diode selection
Power and Power factor Measurement
Total Harmonics Distortion and Harmonics 1 to 25
Phase Rotation Indication
100K Ohms Resistance capability
VoltSense™ (None Contact Voltage)
Frequency Counter
Capacitance capability
Smart Data Hold
Peak Hold
Inrush Current
Min/Max Hold
Low Pass Filter
Auto Power Off
Up to 37mm dia. (750MCM) Conductor
4 feet Drop Proof
Deluxe Carrying Case
Convenient Battery Door
CAT. IV 600V /CAT. III 1000V Safety Standard

APPA 135

10000 Count digital display
Active Backlit, Large scale display
Analog Bar graph
True RMS reading on AC and AC+DC mode
Torch lightening when clamping
AC 600 Amps capability
Auto AC/DC 1000 Volts capability and selection
Auto Ohms/Continuity/Diode selection
Power and Power factor Measurement
Total Harmonics Distortion and Harmonics 1 to 25
Phase Rotation Indication
100K Ohms Resistance capability
VoltSense™ (None Contact Voltage)
Frequency Counter
Capacitance capability
℃/ ℉ Temperature Function
DC μA for flame rod testing
Smart Data Hold
Peak Hold
Inrush Current
Min/Max Hold
Low Pass Filter
Auto Power Off
Up to 37mm dia. (750MCM) Conductor
4 feet Drop Proof
Temp. probe included
Deluxe Carrying Case
Convenient Battery Door
CAT. IV 600V /CAT. III 1000V Safety Standard

APPA 136

10000 Count digital display
Active Backlit, Large scale display
Analog Bar graph
True RMS reading on AC and AC+DC mode
Torch lightening when clamping
Auto AC/DC 600 Amps capability and selection
Auto AC/DC 1000 Volts capability and selection
Auto Ohms/Continuity/Diode selection
Power and Power factor Measurement
Total Harmonics Distortion and Harmonics 1 to 25
Phase Rotation Indication
100K Ohms Resistance capability
VoltSense™ (None Contact Voltage)
Frequency Counter
Capacitance capability
Smart Data Hold
Peak Hold
Inrush Current
DCA Auto-Zeroing Key
Min/Max Hold
Low Pass Filter
Auto Power Off
Up to 37mm dia. (750MCM) Conductor
Bus bar size 45mm x 10mm
4 feet Drop Proof
Deluxe Carrying Case
Convenient Battery Door
CAT. IV 600V /CAT. III 1000V Safety Standard

APPA 137

10000 Count digital display
Active Backlit, Large scale display
Analog Bar graph
True RMS reading on AC and AC+DC mode
Torch lightening when clamping
AC 1000 Amps capability
Auto AC/DC 1000 Volts capability and selection
Auto Ohms/Continuity/Diode selection
Power and Power factor Measurement
Total Harmonics Distortion and Harmonics 1 to 25
Phase Rotation Indication
100K Ohms Resistance capability
VoltSense™ (None Contact Voltage)
Frequency Counter
Capacitance capability
Smart Data Hold
Peak Hold
Inrush Current
Min/Max Hold
Low Pass Filter
Auto Power Off
Up to 42mm dia. (1000MCM) Conductor
4 feet Drop Proof
Deluxe Carrying Case
Convenient Battery Door
CAT. IV 600V /CAT. III 1000V Safety Standard

APPA 138

10000 Count digital display
Active Backlit, Large scale display
Analog Bar graph
True RMS reading on AC and AC+DC mode
Torch lightening when clamping
Auto AC/DC 1000 Amps capability and selection
Auto AC/DC 1000 Volts capability and selection
Auto Ohms/Continuity/Diode selection
Power and Power factor Measurement
Total Harmonics Distortion and Harmonics 1 to 25
Phase Rotation Indication
100K Ohms Resistance capability
VoltSense™ (None Contact Voltage)
Frequency Counter
Capacitance capability
℃/ ℉ Temperature Function
Smart Data Hold
Peak Hold
Inrush Current
DCA Auto-Zeroing Key
Min/Max Hold
Low Pass Filter
Auto Power Off
Up to 42mm dia. (1000MCM) Conductor
Bus bar size 62mm x 12mm
4 feet Drop Proof
Temp. probe included
Deluxe Carrying Case
Convenient Battery Door
CAT. IV 600V /CAT. III 1000V Safety Standard