

APPA 30 Series

The State-of-the-Art Clamp-On Measuring Instruments

AC CURRENT TRANSDUCER

AC/DC CURRENT TRANSDUCER



APPA 31
 AC 400A capability
 1.9% basic accuracy
 Non-intrusive transducing
 Up to 29mm diameter conductor
 5 feet drop proof
 Coiled cable output plugs
 Ergonomically designed jaw and trigger
 Hand guard designed
 Carrying case included
 IEC 1010-1 CAT II 600V



APPA 32
 AC/DC 600A capability
 Dual Hall sensor
 2.0% basic DCA/ACA accuracy
 Non-intrusive transducing
 Up to 34mm dia conductor
 Up to 20 x 40mm busbar
 DCA zero adjust knob Power on indicating
 Battery low indicator
 5 feet drop proof
 Coiled cable output plugs
 Hand Guard protection
 Carrying case included
 IEC 1010-1 CAT II 600V



APPA 30T
 AC/DC 300A capability
 Auto zero key for DCA
 1.0% basic DCA/ACA accuracy
 Red LED - Low battery indication
 Green LED - Power on indication
 Coiled cable output jacks
 Standard 9V battery
 Up to 22mm dia. (350 MCM) conductor
 4 feet drop proof
 Insulated input jacks
 Hand guard designed
 Deluxe carrying case
 IEC 1010-1 CAT III 600V Safety
 Standard



APPA 39T
 AC/DC 1000A Amps capability
 Auto Zero Key for DCA
 Red LED - Low battery Indication
 Green LED - Power on Indication
 Coiled Cable Output Leads
 Insulated Input Jacks
 Standard 9V battery
 Up to 51mm dia. (2") Conductor
 Up to 24 x 60mm Busbar
 4 feet drop proof
 Deluxe Carrying Case
 Hand Guard Designed
 IEC 1010-1 CAT. III 1000V Safety
 Standard

東方科技公司 ORIENTAL TECHNOLOGY COMPANY



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APPA 30 Series

The State-of-the-Art Clamp-On Measuring Instruments

AC CURRENT/VOLTAGE/RESISTANCE CLAMP METER



APPA 35N
APPA 35R (True RMS reading)
4000 count high resolution
AC 350A, 600V capability
Autoranging
1.2% basic ACV accuracy
1.9% basic ACA accuracy
1.9% basic OHM accuracy
Continuity buzzer
Up to 29mm (600MCM) conductor
600V circuit protection
Display hold function
Auto power off
4 feet drop proof
Insulated input jacks
Hand Guard protection
Deluxe carrying case
IEC 1010-1 CAT II 600V



APPA 33II
APPA 33RII (True RMS reading)
2000 count large scale LCD display
AC 600 Amps capability
AC 600 Volts capability
2000 Ohms Resistance range
True RMS ACV/ACA (APPA 33RII)
Continuity Beeper
Display Hold Auto power off
600Volts Circuit protection
Insulated Input Jacks
Up to 34mm dia. (750MCM)
conductor
4 feet Drop Proof
Protective carrying case
Hand Guard Designed
CAT. III 600V/CAT. II 1000V Safety
Standard



APPA 39 AC
APPA 39 AR (True-RMS reading)
4000 count high resolution
AC 1200A in specification,
AC 1000A in specification (39AR)
1500A overload protection
AC 600A, DC 1000V capability
Autoranging
1.2% basic ACV accuracy
1.2% basic DCV accuracy
2% basic OHM accuracy
CONTINUITY beeper
True-RMS reading in ACV/ACA
Up to 51mm dia. (2") conductor
600V circuit protection
Display HOLD function
Auto Power Off
Insulated input jacks
Hand guard designed
Deluxe carrying case
IEC 1010-1 CAT. II 1000V



APPA 33
APPA 33R (True-RMS reading)
4000 count high resolution
AC 600A, 600V capability
Autoranging
1.2% basic ACV accuracy
1.9% basic ACA accuracy
1.9% basic OHM accuracy
Continuity beeper
Up to 40mm dia. (750MCM)
conductor
600 Volts circuit protection
Display hold function
Auto power off
4 feet drop proof
Insulated input jacks
Hand guard designed
Deluxe carrying case
IEC 1010-1 CAT II 600V

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APPA 30 SERIES CLAMP INSTRUMENTS

SPECIFICATIONS: (All at 23 ±5 ≤80% R.H.)

		APPA 31	APPA 32	APPA 30T	APPA 39T
AC CURRENT:	Ranges	400A	100A, 600A	40A, 300A	100A, 1000A
	Resolution	1mV/A	10mV/A, 1mV/A	10mV/A, 1mV/A	10mV/A, 1mV/A
	Accuracy	50 ~ 60Hz	45Hz ~ 400Hz	40Hz ~ 400Hz	40Hz ~ 400Hz
		±(1.9% + 0.5A), 0 ~ 350A	±(2% + 2A), In 100A range	±(1.0% + 0.1A), In 40A range	±(1.9% + 2A), In 100A range
		±(3.2% + 1 A), 350 ~ 400A	±(2%+2A), 100 ~ 400A	±(1.0%+1A), 40A ~ 200A	±(1.9%+7A), 100A ~ 400A
DC CURRENT:	Ranges		100A, 600A	40A, 300A	100A, 1000A
	Resolution		10mV/A, 1mV/A	10mV/A, 1mV/A	10mV/A, 1mV/A
	Accuracy		±(2%+2A), In 100A range	±(1.0%+0.1A), In 40A range	±(2.9%+ 2A), In 100A range
			±(2%+2A), 100A ~ 400A	±(1.0%+1A), 40A ~ 200A	±(1.9%+ 7A), 100A ~ 400A
			±(3% + 2A), 400A ~ 600A	±(1.9% + 2A), 200A ~ 300A	±(2.9% + 5A), 400A ~ 1000A
Load Impedance:	AC and DC		100KΩ min		100KΩ min
Position Error:			±1%rdg	±1%rdg	±1%rdg
Output Voltage:	AC/DC, 10mV/A in 100A, 1mV/A in 1000A	AC 1mV per 1A	AC/DC, 10mV/A in 100A, 1mV/A in 600A	AC/DC, 10mV/A in 40A, 1mV/A in 300A	AC/DC, 10mV/A in 100A, 1mV/A in 1000A
Type of Sensing:		Current transformer sensing	Hall Effect sensing for AC and DC		

GENERAL	APPA 31	APPA 32	APPA 30T	APPA 39T
Low Battery Indication:		Red LED	Red LED	Red LED
Operating Temperature: 0°C ~ 50°C, ≤80% R.H.	•	•	•	•
Storage Temperature: - 20°C ~ 60°C	•	•	•	•
Temperature Coefficient: 0.2 x (spec. Acc'y) / °C, <18°C or > 28°C	•	•	•	•
Shock Proof: 4 feet drops	•	•	•	•
Safety: IEC 61010 and designed to meet UL 3111 specifications	CAT. II 600V	CAT. II 600V	CAT. II 600V	CAT. II 1000V
Maximum Conductor Size	ψ 29 mm	ψ 34 mm	ψ 22 mm	ψ 51 mm
Maximum Jaw Opening	30 mm	38 mm	25 mm	53 mm
Maximum Busbar Size		20 x 40 mm		24 x 60 mm
Power Requirement: Single 9V battery (NEDA 1604, IEC 6F22)		•	•	•
Battery Life: In hours (Alkaline battery)		45	66	66
Size: W x L x D in mm	72x148x36, w/o cable	60x203x27, w/o cable	65.5x185x40, w/o cable	90x232x32, w/o cable
Weight: In grams	250	380	320	420
Include with Instrument:	Safety test leads			
	Battery (ZnC)	User supplied	Installed	Installed
	Coiled cable output plugs	Installed	Installed	Installed
	User's manual	•	•	•
	Carrying Case	•	•	•

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APPA 30 SERIES CLAMP INSTRUMENTS

SPECIFICATIONS: (All at 23 ±5 ≤80% R.H.)

		APPA 33 / 33R	APPA 35N / 35R	APPA 33II / 33RII	APPA 39AC / 39AR
AC VOLTAGE	Range:	400V, 600V	400V, 600V	600V	400V, 600V
	Resolution:	0.1V	0.1V	0.1V	0.1V
	Accuracy:	±(1.2%+5d), 40Hz~500Hz	±(1.2%+5d), 40Hz~500Hz	±(1.2%+3d), 40Hz~500Hz	±(1.2%+5d), 40Hz~500Hz
	Input Impedance:	10MΩ//<100pF			
	Overload Protection:	600V rms			
	Conversion Type: Average sensing RMS indicating	33 • 33R True RMS	35N • 35R True RMS	33II • 33RII True RMS	39AC • 39AR True RMS
DC VOLTAGE	Ranges:				400V, 1000V
	Resolution:				0.1V
	Accuracy:				±(0.7%+5d)
	Input Resistance: 10MΩ				11MΩ
	Overload Protection: 600V rms				1000V DC
AC CURRENT:	Ranges:	400A, 600A	400A	200A, 600A	400A, 1000A (39AR) / 1200A (39AC)
	Resolution:	0.1A	0.1A	0.1A	0.1A
	Accuracy:	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz
		±(1.9% + 5d), 0A ~ 400A	±(1.9% + 5d)	±(1.9% + 5d), 200A	±(1.9% + 8d), 0A ~ 40A
		±(2.9% + 5d), 400A ~ 600A		±(1.5% + 5d), 0A ~ 400A	±(1.9% + 5d), 40A ~ 400A
				±(2.5% + 5d), 400A ~ 600A	±(2.9% + 5d), 400A ~ 1000A (39AR) 400A ~ 1200A (39AC)
	Conversion Type: Average sensing RMS indicating	33 • 33R True RMS	35N • 35R True RMS	33II • 33RII True RMS	39AC • 39AR True RMS
RESISTANCE:	Ranges:	4KΩ, 40KΩ	4KΩ, 40KΩ	2000Ω	4KΩ, 40KΩ
	Resolution:	1Ω	1Ω	1Ω	1Ω
	Accuracy:	±(2% rdg + 9d)	±(1.9% rdg + 8d)	±(1.5% rdg + 2d)	±(2% + 9d)
	Overload Protection:	600V rms	600V rms	600V rms	600V rms
CONTINUITY TEST:	Threshold:	<200Ω approximate	<100Ω approximate	<50Ω approximate	<100Ω approximate
	Indication:	2KHz tone buzzer			
Type of Sensing:		Current transformer sensing			

GENERAL	APPA 33 / 33R	APPA 35N / 35R	APPA 33II / 33RII	APPA 39AC / 39AR
Display: LCD digital readout	4000 count	4000 count	4000 count	4000 count
Measuring Rate: Times per second	4 T/sec	4 T/sec	2.5 T/sec	4 T/sec
Overage Indication:	"OL"	"OL"	"OL"	"OL"
Low Battery Indication:				
Auto Power Off:	Approx. 30 Minutes			
Operating Temperature:	0°C ~ 50°C, ≤80% R.H.			0°C~45°C, ≤80%R.H.
Storage Temperature:	- 20°C ~ 60°C			
Temperature Coefficient:	0.2 x (spec. Acc'y) / °C, <18°C or > 28°C			
Shock Proof: 4 feet drops	•	•	•	•
Safety: IEC 61010 and designed to meet UL 3111 specifications	CAT. II 600V	CAT. II 600V	CAT. III 600V, CAT II 1000V	CAT. III 600V, CAT II 1000V
Maximum Conductor Size:	ψ 40 mm	ψ 29 mm	ψ 34 mm	ψ 51 mm
Maximum Jaw Opening:	42 mm	30 mm	37 mm	53 mm
Maximum Busbar Size:				24 x 60 mm
Power Requirement:	Single 9V battery (NEDA 1604, IEC 6F22)			
Battery Life: In hours (Alkaline battery)	200			
Size: W x L x D in mm	88 x 215 x 36	77 x 194 x 36	76 x 200 x 41	105 x 268 x 42
Weight: In grams	320	250	360	420
Include with Instrument: Safety test leads	•	•	•	•
	Battery (ZnC)	Installed	Installed	Installed
	User's manual	•	•	•
	Carrying Case	•	•	•

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