


















# CLAMP METERS

Selection Guide of Clamp Meters

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	AC Clamp Meters											Fork Current Tester
	2031	2007R	2117R	2127R	2200	2200R	2002PA	2002R	2204R	2210R	2300R	
Appearance												
Conductor size 	φ24mm	φ33mm	φ33mm	φ33mm	φ33mm	φ33mm	φ55mm	φ55mm	φ70mm	φ150mm	φ10mm	
Display	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	
Detection method 	-	✓	✓	✓	-	✓	-	✓	✓	✓	✓	
Frequency response	40 - 1kHz	40 - 400Hz	40 - 1kHz	40 - 1kHz	45 - 65Hz(ACA) 45 - 500Hz(ACV)	40 - 1kHz(ACA) 45 - 500Hz(ACV)	40 - 1kHz	40 - 1kHz	45 - 500Hz	45 - 500Hz	DC 50/60Hz	
<b>Measurement</b>												
<b>AC A</b>	Max	200A	1000A	1000A	1000A	1000A	1000A	2000A	2000A	400A	3000A	100A
	Resolution	0.01A	0.1A	0.01A	0.01A	0.01A	0.01A	0.1A	0.1A	0.001A	0.01A	0.1A
	Accuracy	±2%R±5D	±1.5%R±4D	±1.5%R±4D	±1.5%R±4D	±1.4%R±6D	±1.5%R±5D	±1%R±3D	±1.5%R±3D	±3%R±5D	±3%R±5D	±2%R±5D
<b>DC A</b>	Max	-	-	-	-	-	-	-	-	-	-	100A
	Resolution	-	-	-	-	-	-	-	-	-	-	0.1A
	Accuracy	-	-	-	-	-	-	-	-	-	-	±2%R±5D
AC Voltage <b>AC V</b>	-	600V	60/600V	60/600V	600V	600V	750V	750V	-	-	-	
DC Voltage <b>DC V</b>	-	600V	60/600V	60/600V	600V	600V	1000V	1000V	-	-	-	
Resistance <b>Ω</b>	-	6kΩ	600kΩ	40MΩ	40MΩ	40MΩ	400KΩ	400KΩ	-	-	-	
Continuity buzzer 	-	✓	✓	✓	✓	✓	✓	✓	-	-	-	
Frequency <b>Hz</b>	-	-	-	9.999kHz	-	-	-	-	-	-	-	
Duty cycle ratio <b>DUTY</b>	-	-	-	-	-	-	-	-	-	-	-	
Diode test 	-	-	-	✓	-	-	-	-	-	-	-	
Capacitance 	-	-	-	✓	-	-	-	-	-	-	-	
Temperature <b>°C</b>	-	-	-	-	-	-	-	-	-	-	-	
<b>Function</b>												
Non contact voltage <b>NCV</b>	-	-	✓	✓	-	-	-	-	-	-	-	✓
Back light 	-	-	-	✓	-	-	-	-	✓	✓	-	
Data hold <b>DATA HOLD</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Peak hold <b>PEAK HOLD</b>	-	-	-	✓	-	-	✓	✓	-	-	-	
Max/Min <b>MAX/MIN</b>	-	-	-	-	-	-	-	-	✓	✓	-	
Relative <b>REL</b>	-	-	-	-	-	-	-	-	-	-	-	
Output <b>OUT PUT</b>	-	-	-	-	-	-	✓	✓	-	-	-	
<b>Other</b>												
Operating temperature	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 50°C	0 - 50°C	0 - 40°C
Measurement categories	CAT III 300V	CAT IV 300V CAT III 600V	CAT IV 300V CAT III 600V	CAT IV 300V CAT III 600V	CAT III 600V(ACA) CAT III 300V(AC/DCV) CAT II 600V(AC/DCV)	CAT IV 300V(ACA) CAT III 600V(ACA) CAT III 300V(AC/DCV) CAT II 600V(AC/DCV)	CAT III 600V CAT II 1000V	CAT III 600V CAT II 1000V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT III 300V	
Power source	LR-44 × 2	R03/LR03 × 2	R03/LR03 × 2	R03/LR03 × 2	R03/LR03 × 2	R03/LR03 × 2	R6 × 2	R6 × 2	R03/LR03 × 2	R03/LR03 × 2	R03 × 2	
Dimensions (L)×(W)×(D)mm	147×58.5×26	204×81×36	204×81×36	204×81×36	190×68×20	190×68×20	247×105×49	247×105×49	120×70×26 (Display unit)	120×70×26 (Display unit)	161×40×30	
Weight(Approx.)	100g	220g	220g	230g	120g	120g	470g	470g	200g	300g	110g	
Accessories	Test leads	-	7066A	7066A	7066A	7107A	7107A	7107A	7107A	-	-	-
	Fuse	-	-	-	-	-	-	-	-	-	-	
	Case	9090	9079	9079	9079	9160	9160	9094	9094	9174	9174	9113

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		DC Milliamp Clamp Meter/ Clamp Logger		AC/DC Clamp Meters						Leakage Clamp Meters				
		2500	2510	2010	2033	2046R	2055 2056R	2003A	2009R	2431	2434	2432	2433 2433R	2413F 2413R
Appearance														
Conductor size		φ6 mm	φ6 mm	φ7.5mm	φ24mm	φ33mm	φ40mm	φ55mm	φ55mm	φ24mm	φ28mm	φ40mm	φ40mm	φ68mm
Display		Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
Detection method		-	-	-	-	✓	✓ (2056R)	-	✓	-	-	-	✓ (2433R)	✓ (2413R)
Frequency response		DC	DC	DC 40 - 2kHz	DC 20 - 1kHz	DC 40 - 400Hz	DC 40 - 400Hz	DC 40 - 1kHz	DC 20 - 1kHz	40 - 400Hz	40 - 400Hz	20 - 1kHz	20 - 1kHz	40 - 1kHz
<b>Measurement</b>														
AC A	Max	-	-	20A	300A	600A	1000A	2000A	2000A	200A	100A	100A	400A	1000A
	Resolution	-	-	0.1mA	0.01A	0.1A	0.1A	0.1A	0.1A	0.01mA	0.1mA	0.001mA	0.01mA	0.1mA
	Accuracy	-	-	±1%R±2D	±1%R±4D	±2%R±5D	±2%R±5D	±1.5%R±2D	±1.3%R±3D	±2%R±4D	±2%R±4D	±1%R±5D	±1%R±5D	±1%R±2D(2413R) ±1.8%R±5D(2413F)
DC A	Max	120mA	120mA	20A	300A	600A	1000A	2000A	2000A	-	-	-	-	-
	Resolution	0.01mA	0.01mA	0.001A	0.01A	0.1A	0.1A	0.1A	0.1A	-	-	-	-	-
	Accuracy	±0.2%R±5D	±0.2%R±5D	±1%R±2D	±1%R±4D	±1.5%R±5D	±1.5%R±5D	±1.5%R±2D	±1.3%R±2D	-	-	-	-	-
AC Voltage		-	-	-	-	600V	600V	750V	750V	-	-	-	-	-
DC Voltage		-	-	-	-	600V	600V	1000V	1000V	-	-	-	-	-
Resistance		-	-	-	-	60MΩ	60MΩ	4000Ω	4000Ω	-	-	-	-	-
Continuity buzzer		-	-	-	-	✓	✓	✓	✓	-	-	-	-	-
Frequency		-	-	-	-	10kHz	10kHz	-	10kHz	-	-	-	-	-
Duty cycle ratio		-	-	-	-	✓	✓	-	-	-	-	-	-	-
Diode test		-	-	-	-	✓	✓	-	-	-	-	-	-	-
Capacitance		-	-	-	-	✓	✓ (2056R)	-	-	-	-	-	-	-
Temperature		-	-	-	-	✓	✓ (2056R)	-	-	-	-	-	-	-
<b>Function</b>														
Non contact voltage		-	-	-	-	✓	✓	-	-	-	-	-	-	-
Back light		✓	✓	-	-	✓	✓	-	-	-	-	-	-	✓ (2413R)
Data hold		✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Peak hold		-	-	-	-	✓	✓ (2056R)	✓ (Max)	✓ <sup>*2</sup>	-	-	✓	✓	✓
Max/Min		-	-	-	-	✓	✓	-	-	-	-	-	-	-
Relative		-	-	-	-	✓	✓	-	-	-	-	-	-	-
Output		✓	✓	✓	-	-	-	✓	✓	-	-	-	-	✓
Filter		-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓
<b>Other</b>														
Operating temperature		-10 - 50°C	-10 - 50°C	0 - 50°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C
Measurement Categories		-	-	-	CAT III 300V	CAT IV 600V	CAT IV 600V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT III 300V	CAT III 300V	CAT III 300V	CAT III 300V	CAT III 300V
Power source		R6/LR6 × 4	R6/LR6 × 4 <sup>1</sup>	6LR61 × 1	LR-44 × 2	R03 × 2	R03 × 2	R6 × 2	R6 × 2	LR-44 × 2	R03 × 2	R03 × 2	R03 × 2	R03 × 2
Dimensions (L)x(W)x(D)mm		111×61×40 (Display unit) 104×34×20 (Sensor)	111×61×46 (Display unit) 104×33×20 (Sensor)	142×64×26 (Display unit) 153×23×18 (Sensor)	147×59×25	243×77×36	254×82×36	250×105×49	250×105×49	149×60×26	169×75×40	185×81×32	185×81×32	250×130×50
Weight(Approx.)		290g	310g	220g	100g	300g	310g	530g	540g	120g	220g	290g	270g	570g
Accessories	Test leads	-	-	-	-	7066A	7066A	7107A	7107A	-	-	-	-	-
	Case	9096	9096	9095	9090	9094	9094	9094	9094	9090	9097	9097	9097	9094

\*1 External power is available.

\*2 In the PEAK mode, the auto-ranging feature is disabled and measuring ranges are fixed as follows.

DC / ACA : 0 - 400.0A

DC / ACV : 0 - 400.0V

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**COSINUS Messtechnik GmbH**

Rotwandweg 4

82024 Taufkirchen

Tel.: 089 / 66 55 94 - 0

Fax: 089 / 66 55 94 -30

[office@cosinus.de](mailto:office@cosinus.de)  
[www.cosinus.de](http://www.cosinus.de)