

## Clamp-on Testers

CL220



AC A/DC A

∅ 24

AC/40~300A

DC/40~300A

CL235



AC A/DC A

∅ 33

AC/400~600A

RMS

DC/400~1000A

DC V/AC V/  
Ω /Hz

### CL220

Light weight & compact design  
Mean value display  
Sleep function  
Approved for conformity to safety standards EN61010-1, EN61010-2-032 (CAT. III 300 V)

#### Specifications

At 23 ±5 75%RH or less  
Accuracy: ±( % rdg + dgt) = ±(% readout + value of least significant digit)

Parameter	Reference	Accuracy
DC current	40A	1.0+4
	300A(±20 ~ ±200A)	1.5+4
	300A(±200 ~ ±300A)	3.0
AC current	40A	1.0+4 (50/60Hz)
		2.5+4 (20 ~ 1kHz)
	300A(20 ~ 200A)	1.5+4 (50/60Hz)
		2.5+4 (20 ~ 1kHz)
	300A(200 ~ 300A)	3.5 (50/60Hz)
		4.0 (20 ~ 1kHz)

#### General Specifications

Parameter	Specification
Method of detection	Mean value
Display	LCD(Digital display:3999 counts)
Response time	Approx. 2 seconds
Range switching	Auto-range
Data hold	On all range
Ambient temperature and humidity	0-40 , 85% RH or less (no condensation)
Temperature coefficient	-
Influence of external magnetic field	1A or less at 400A/m
Influence of conductor position	±(2.0% rdg + 5dgt) or less
Safety standard	Conforms EN61010-1, EN61010-2-032
Circuit voltage	300Vrms or less
Withstanding voltage	3.7kV AC for one minute
Power supply	LR-44 ×2(3V) or SR-44 ×2
Battery life	Approx. 11 hours (continuous)
Consumed current	Approx. 9mA
Sleep function	Automatically powered down in about 5 minutes after the last switch operation
Diameter of measurable conductor	24mm at maximum
Dimensions	Approx. 59(W)×147(H)×25(D)mm
Weight	Approx. 100g
Accessories	User's manual(IM CL220), batteries, carrying case(93033)

### CL235

True RMS display  
Sleep function  
Data hold function  
Approved for conformity to safety standards EN61010-1, EN61010-2-031, EN61010-2-032 (CAT. III 600 V)

#### Specifications

At 23 ±5 75%RH or less  
Accuracy: ±( % rdg + dgt) = ±(% readout + value of least significant digit)

Parameter	Reference	Accuracy
AC current	400/600A	1.5+5 (50/60Hz)
		3.5+5 (40 ~ 1kHz)
DC current	400/1000A	1.0+5
AC voltage	40/400/600V	1.5+5 (50/60Hz)
		3.5+5 (40 ~ 1kHz)
DC voltage	40/400/600V	1.0+5
Crest factor		3
Resistance	400/4000	1.0+5 , Beeps at below 20 (continuity check)
Frequency	10 ~ 3000Hz	1.5+5

#### General Specifications

Parameter	Specification
Method of detection	True RMS
Display	LCD(Digital display:3999 counts)
Response time	Approx. 2 second
Range switching	Auto-range
Data hold	On all range
Peak hold	On AC/DC current range, AC/DC voltage range
Average measurement	-
Ambient temperature and humidity	0-40 , 90% RH or less (no condensation)
Temperature coefficient	-
Influence of external magnetic field	-
Influence of conductor position	±2% or less
Safety standard	Conforms EN61010-1, EN61010-2-031, EN61010-2-032
Circuit voltage	600Vrms or less
Withstanding voltage	5.55kV AC for one minute
Power supply	6F22(006P)9V ×1 or 6LR61 ×1
Battery life	Approx. 15 hours (continuous)
Consumed current	Approx. 15mA
Sleep function	Automatically powered down in about 30 minutes after the last switch operation
Diameter of measurable conductor	33mm at maximum
Dimensions	Approx. 91(W)×210(H)×40(D)mm
Weight	Approx. 450g
Accessories	User's manual(IM CL235), batteries, carrying case(93032)