

# Clamp-on Testers

CL155



- AC A
- ∅54
- AC/400~2000A
- RMS
- AC V/DC V/Ω

CL220



- AC A/DC A
- ∅24
- AC/40~300A
- DC/40~300A

## CL155

- True RMS display
- DC output function
- Data hold function
- Sleep function
- Approved for conformity to safety standards EN61010-1, EN61010-2-031, EN61010-2-032 (CAT. IV 300V, CAT. III 600V, CAT. II 1000V)

### Specifications

At 23°C±5°C, 75%RH or less  
Accuracy:±(% of reading + digits)

Parameter	Range	Accuracy
AC current	400A	1.0+3 (50/60Hz)
		2.0+3 (40~1kHz)
	2000A(0~1500A)	1.0+3 (50/60Hz)
AC voltage	40/400/750V	3.0+3 (40~1kHz)
		3.0(50/60Hz)
DC voltage	40/400/1000V	1.0+2 (50/60Hz)
Resistance	400/4k/40k/400kΩ	1.5+2, Beeps at below 50±35Ω(continuity check)
DC output	400A(0~400mV)	±1.5% rdg ±0.5mV (50/60Hz)
		±2.5% rdg ±0.5mV (40~1kHz)
	2000A(0~150mV/0~1500A)	±1.5% rdg ±0.5mV (50/60Hz)
		±3.5% rdg ±0.5mV (40~1kHz)
	2000A(150~200mV/1500~2000A)	±3.5% rdg (50/60Hz)

### General Specifications

Parameter	Specification
Method of detection	True RMS
Display	LCD(Digital display:4000 counts)
Response time	Approx. 2 seconds
Range switching	Manual-range(on AC current range)/ Auto-range(on AC voltage range, resistance range)
Data hold	On all range
Peak hold	On AC current range
Operating temperature and humidity	0-40°C, 85% RH or less (no condensation)
Temperature coefficient	-
Effect of external magnetic field	1A or less at 400A/m
Effect of conductor position	±(2.0% rdg + 3dgt) or less
Safety standard	Conforms EN61010-1, EN61010-2-031, EN61010-2-032
Circuit voltage	1000Vrms or less
Withstanding voltage	6300V AC for 5 sec
Power supply	R6P(SUM-3)×2 or LR6×2
Battery life	Approx. 80 hours (continuous)
Consumed current	Approx. 7mA
Sleep function	Automatically powered down in about 10 minutes after the last switch operation
Diameter of measurable conductor	54mm at maximum
Dimensions	Approx. 105(W)×247(H)×49(D)mm
Weight	Approx. 470g
Accessories	User's manual, batteries, carrying case (93034), Output plug (98012), Test Lead (98072)

## CL220

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

### Specifications

At 23°C±5°C, 75%RH or less  
Accuracy:±(% of reading + digits)

Parameter	Range	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:4000 counts)
Response time	Approx. 2 seconds
Range switching	Auto-range
Data hold	On all range
Operating temperature and humidity	0-40°C, 85% RH or less (no condensation)
Temperature coefficient	-
Effect of external magnetic field	1A or less at 400A/m
Effect of conductor position	±(2.0% rdg + 5dgt) or less
Safety standard	Conforms EN61010-1, EN61010-2-032
Circuit voltage	300Vrms or less
Withstanding voltage	4240V AC for 5 sec
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, batteries, carrying case(93033)