

# Clamp-on Testers

# TRANSCAT®

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CL250



- AC /DC A
- Ø55
- AC/400~2000A
- DC/400~2000A
- AC V/DC V/Ω

## CL250

- Mean value display
- Sleep function
- Data hold function
- Approved for conformity to safety standards EN61010-1, EN61010-2-031, EN61010-2-032 (CAT. III 600 V, CAT. II 1000 V)

### Specifications

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

Parameter	Reference	Accuracy
DC current	400/2000A	1.5+2
AC current	400A/2000A(0~1000A)	1.5+2 (50/60Hz)
		3.0+4 (40~500Hz)
		5.0+4 (500~1kHz)
	2000A(1001~2000A)	3.0+2 (50/60Hz)
DC voltage	400/1000V	1.0+2
AC voltage	400/750V	1.5+2 (50/60Hz)
		1.5+4 (40~1kHz)
Resistance	400/4000Ω	1.5+2, Beeps at below 50±35Ω(continuity check)
DC output	DC400A(0~400mV)	±1.5% rdg ±3mV
	DC2000A(0~200mV)	±1.5% rdg ±3mV
	AC400A(0~400mV)	±1.5% rdg ±3mV (50/60Hz)
		±3.0% rdg ±3mV (40~500Hz)
		±5.0% rdg ±3mV (500~1kHz)
AC2000A(0~100mV/0~1000A)	±3.0% rdg ±3mV (50/60Hz)	
	AC2000A(100.1~200mV/1001~2000A)	±3.0% rdg ±3mV (50/60Hz)

### General Specifications

Parameter	Specification
Method of detection	Mean value
Display	LCD(Digital display:3999 counts)
Response time	Approx. 2 seconds
Range switching	Manual-range(on current, voltage range) /Auto-range(on resistance range)
Peak hold	On all range
Max hold	On current/voltage range
Ambient temperature and humidity	0-40°C, 85% RH or less (no condensation)
Temperature coefficient	-
Influence of external magnetic field	4A or less at 400A/m
Influence of conductor position	±(1.5% rdg + 3dgt) or less
Safety standard	Conforms EN61010-1, EN61010-2-031, EN61010-2-032
Circuit voltage	1000Vrms or less
Withstanding voltage	5.55kV AC for one minute
Power supply	R6P(SUM-3) × 2 or LR6 × 2
Battery life	Approx. 100 hours (continuous)
Consumed current	Approx. 9mA
Sleep function	Automatically powered down in about 10 minutes after the last switch operation
Diameter of measurable conductor	55mm at maximum
Dimensions	Approx. 105(W)×250(H)×49(D)mm
Weight	Approx. 530g
Accessories	User's manual(IM CL250), Test Lead(98011), Output plug(98012), batteries, carrying case(93034)

CL255



- AC /DC A
- Ø55
- AC/400~2000A
- DC/400~2000A
- RMS
- AC V/DC V/Ω /Hz

## CL255

- 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, CAT. II 1000 V)

### Specifications

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

Parameter	Reference	Accuracy
DC current	400/2000A	1.5+2
AC current	400A/2000A(150~1700A)	1.5+3 (50/60Hz)
		3.0+4 (30~1kHz)
		3.5+3 (50/60Hz)
	2000A(1701~2000A)	3.5+3 (50/60Hz)
DC voltage	40/400/1000V	1.0+2
AC voltage	40/400/750V	1.5+3 (50/60Hz)
		2.0+4 (30~1kHz)
Crest factor		≤3
Resistance	400/4000Ω	1.5+2, Beeps at below 20Ω(continuity check)
Frequency	10~3999Hz	1.5+5
DC output	DC400A(0~400mV)	±1.5% rdg ±3mV
	DC2000A(15~200mV)	±1.5% rdg ±3mV
	AC400A(0~400mV)	±1.5% rdg ±3mV (50/60Hz)
		±3.0% rdg ±3mV (40~1kHz)
		±5.0% rdg ±3mV (500~1kHz)
AC2000A(15~170mV/150~1700A)	±3.0% rdg ±3mV (40~1kHz)	
	AC2000A(170.1~200mV/1701~2000A)	±3.5% rdg ±3mV (50/60Hz)

### General Specifications

Parameter	Specification
Method of detection	True RMS
Display	LCD(Digital display:3999 counts)
Response time	Approx. 1 second(on DC current/voltage range), Approx. 2 seconds(AC current/voltage range, resistance range)
Range switching	Auto-range
Data hold	On all range (without peak hold)
Peak hold	On current/voltage range
Average Measurement	On current/voltage range
Ambient temperature and humidity	0-40°C, 85% RH or less (no condensation)
Temperature coefficient	-
Influence of external magnetic field	4A or less at 400A/m
Influence of conductor position	±(1.5% rdg + 3dgt) or less
Safety standard	Conforms EN61010-1, EN61010-2-031, EN61010-2-032
Circuit voltage	1000Vrms 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 10 minutes after the last switch operation
Diameter of measurable conductor	55mm at maximum
Dimensions	Approx. 105(W)×250(H)×49(D)mm
Weight	Approx. 540g
Accessories	User's manual(IM CL255), Test Lead(98011), Output plug(98012), batteries, carrying case(93034)