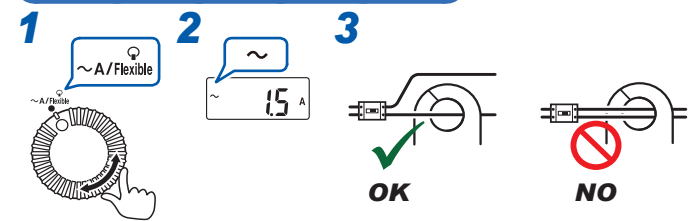


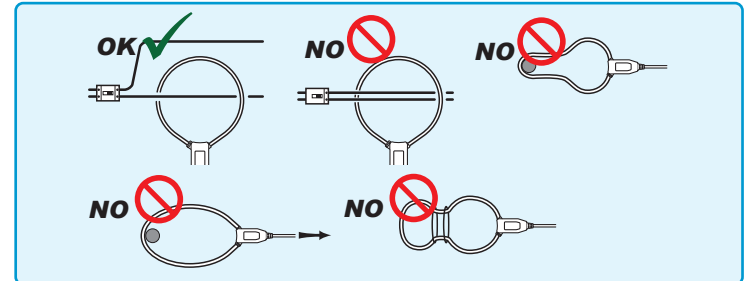
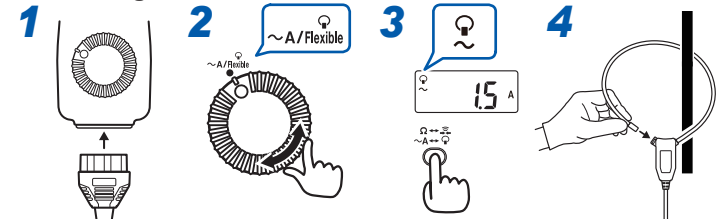
Measurement Methods

Before attaching the L4933 or L4934 on test leads, bring the test leads into measurement category II rating (remove the sleeves when using the L9208).

AC Current Measurement [$\sim A/\text{Flexible}$]

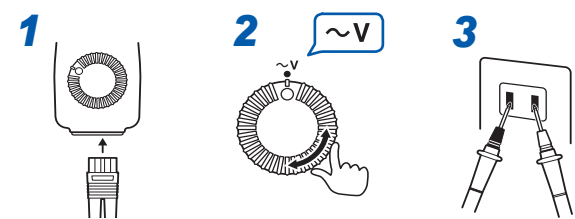


Measuring with Model CT6280

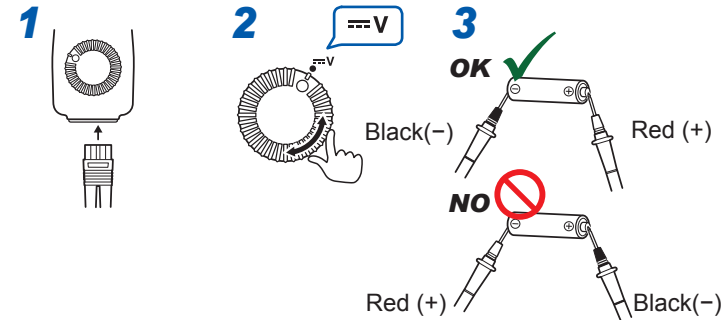


Voltage Measurement

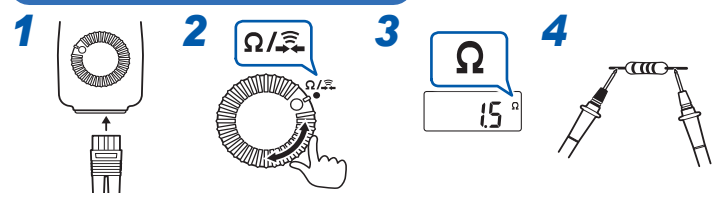
[$\sim V$]



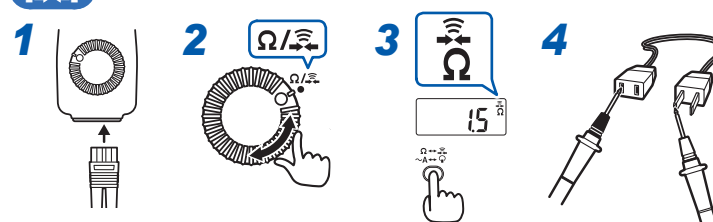
[$\equiv V$]



Resistance Measurement [Ω]



[$\sim \Omega$]



Specifications

Accuracy

We define measurement tolerances in terms of rdg. (reading) and dgt. (digit) values, with the following meanings:

rdg. (reading or displayed value)	The value currently being measured and indicated on the measuring instrument.
dgt. (resolution)	The smallest displayable unit on a digital measuring instrument, i.e., the input value that causes the digital display to show a "1" as the least-significant digit.

Basic Specifications

Maximum input current	• Jaw (3280-10F) 2000 A AC continuous (45 Hz to 66 Hz) • Flexible loop (3280-10F+CT6280) 4200 A AC continuous (50 Hz to 60 Hz)
Maximum input voltage	600 V AC/DC and 3×10^6 V·Hz or less (ACV/DCV)
Overload protection	600 V AC/DC (ACV/DCV/ Ω /continuity)
Maximum rated voltage to earth	• Jaw, CT6280 600 V (Measurement category III), 300 V (Measurement category IV) (Anticipated transient overvoltage: 6000 V) • Voltage measurement terminal 300 V (Measurement category III) (Anticipated transient overvoltage: 4000 V)

AC measurement method	Average value measurement RMS method
Display update rate	400 ms \pm 25 ms
Noise rejection characteristics	NMRR DCV -40 dB or more (50 Hz/60 Hz) CMRR DCV -100 dB or more (-50 Hz/60 Hz, 1 k Ω unbalance) ACV -60 dB or more (50 Hz/60 Hz, 1 k Ω unbalance) But, -45 dB or more for 600 V range.

Zero-display range	5 counts (AC Current, jaw - flexible loop)
Effects of conductor position	Within $\pm 5.0\%$ (At all positions around the sensor's center point reference)
Maximum measurable conductor diameter	• 3280-10F: $\phi 33$ mm or less • CT6280: $\phi 130$ mm or less


General Specifications

Operating environment	Indoors, pollution degree 2, altitude up to 2000 m (6562 ft.)
Operating temperature and humidity	• Temperature; -25°C to 65°C (-13.0°F to 149.0°F) (40 M Ω range: up to 40°C) • Humidity (no condensation); Less than 40°C (104.0°F): 80% RH or less At least 40°C (104.0°F) but less than 45°C (113.0°F): 60% RH or less At least 45°C (113.0°F) but less than 50°C (122.0°F): 50% RH or less At least 50°C (122.0°F) but less than 55°C (131.0°F): 40% RH or less At least 55°C (131.0°F) but less than 60°C (140.0°F): 30% RH or less At least 60°C (140.0°F) but less than 65°C (149.0°F): 25% RH or less
Storage temperature and humidity	-25°C to 65°C (-13°F to 149°F), 80% RH or less (no condensation)
Dust resistance and water resistance	IP40 (in storage, EN 60529)
Drop-proof functionality	1 m on concrete
Standards	Safety: EN61010 EMC: EN61326
Power supply	CR2032 Coin-shaped lithium battery $\times 1$ (3 V DC) Maximum rated power: 15 mVA
Continuous operating time	Approx. 120 hours (AC current measurement mode, continuous, unloaded)
Dimensions	• 3280-10F: Approx. 57W \times 175H \times 16D mm (2.24"W \times 6.89"H \times 0.63"D) • CT6280: Approx. 42W \times 65H \times 18D mm (1.65"W \times 2.56"H \times 0.71"D) (excluding the flexible loop and output cable)
Weight	• 3280-10F: Approx. 100 g (3.5 oz.) (including battery) • CT6280: Approx. 71 g (2.5 oz.)
Product warranty period	3280-10F, CT6280: 3 years
Accessories	• 9398 Carrying Case (C0205 Carrying Case when CT6280 is attached) • L9208 Test lead • CR2032 Coin-shaped lithium battery • Instruction Manual
Options	• CT6280 AC Flexible Current Sensor (Attachment is included) • 9209 Test Leads Holder • L4933 Contact Pin Set (Can be connected to the tip of the L9208, which comes with the instrument.) • L4934 Small Alligator Clip Set (Can be connected to the tip of the L9208, which comes with the instrument.)

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Perchlorate Material - special handling may apply.
See <https://dtsc.ca.gov/perchlorate/>

Function Specifications

Display	Maximum count: 4199 counts
Battery indicator warning voltage	 mark lights up at 2.3 V \pm 0.15 V or less

Accuracy Specifications

Conditions of guaranteed accuracy

- Guaranteed accuracy period: 1 year
(Number of jaw and flexible loop open/close cycles: 10,000 or less)
- Temperature and humidity for guaranteed accuracy: $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ($73.0^{\circ}\text{F} \pm 9.0^{\circ}\text{F}$), 80% RH or less
- Temperature characteristic: Measurement accuracy $\times 0.1/^{\circ}\text{C}$ is added (excluding $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$)

AC Current - Jaw

Range	Accuracy range	Accuracy
		50 Hz $\leq f \leq$ 60 Hz
42.00 A	4.00 A to 41.99 A	$\pm 1.5\%$ rdg. ± 5 dgt.
420.0 A	40.0 A to 419.9 A	
1000 A	100 A to 1000 A	

AC Current - Flexible loop

Range	Accuracy range	Accuracy
		50 Hz $\leq f \leq$ 60 Hz
420.0 A	40.0 A to 419.9 A	$\pm 3.0\%$ rdg. ± 5 dgt.
4200 A	400 A to 4199 A	(includes accuracy of CT6280 AC Flexible Current Sensor: $\pm 1.0\%$ rdg.)

*1: Includes accuracy of CT6280 AC Flexible Current Sensor: $\pm 1.0\%$ rdg.

*2: Accuracy is not defined for currents of 1000 A or more or currents of 5×10^5 A·Hz or more.

AC Voltage

Range	Accuracy range	Accuracy	Input impedance
		45 Hz $\leq f \leq$ 66 Hz	66 Hz $< f \leq$ 500 Hz
4.200 V	0.400 V to 4.199 V	$\pm 1.8\%$ rdg. ± 7 dgt.	11 M $\Omega \pm 5\%$ 10 M $\Omega \pm 5\%$
42.00 V	4.00 V to 41.99 V		
420.0 V	40.0 V to 419.9 V		
600 V	400 V to 600 V		

DC Voltage

Range	Accuracy range	Accuracy	Input impedance
420.0 mV	40.0 mV to 419.9 mV	$\pm 2.5\%$ rdg. ± 5 dgt.	100 M Ω or more
4.200 V	0.400 V to 4.199 V	$\pm 1.0\%$ rdg. ± 3 dgt.	11 M $\Omega \pm 5\%$
42.00 V	4.00 V to 41.99 V		10 M $\Omega \pm 5\%$
420.0 V	40.0 V to 419.9 V		
600 V	400 V to 600 V		

Resistance

Range	Accuracy range	Accuracy	Open circuit voltage
420.0 Ω	40.0 Ω to 419.9 Ω	$\pm 2.0\%$ rdg. ± 4 dgt.	3.4 V or less
4.200 k Ω	0.400 k Ω to 4.199 k Ω		
42.00 k Ω	4.00 k Ω to 41.99 k Ω		
420.0 k Ω	40.0 k Ω to 419.9 k Ω		
4.200 M Ω	0.400 M Ω to 4.199 M Ω	$\pm 5.0\%$ rdg. ± 4 dgt.	
42.00 M Ω	4.00 M Ω to 41.99 M Ω	$\pm 10.0\%$ rdg. ± 4 dgt.	

Continuity Check

Range	Accuracy	Threshold of buzzer sound	Open circuit voltage
420.0 Ω	$\pm 2.0\%$ rdg. ± 4 dgt.	50 $\Omega \pm 40$ Ω or less	3.4 V or less