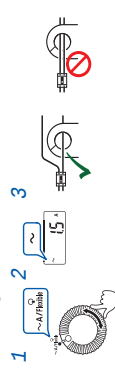


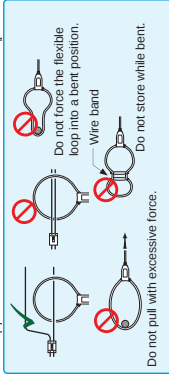
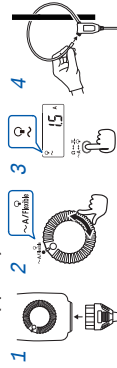
Measurement Methods

AC Current Measurement [$\sim$ AC/Hz]

Measuring with the instrument

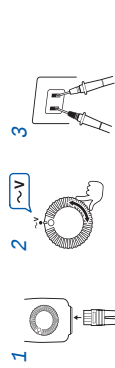


Measuring with Model CT6280 AC Flexible Current Sensor (optional)

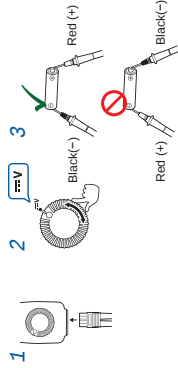


Voltage Measurement

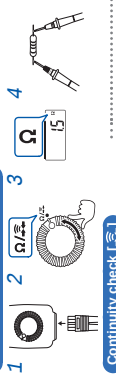
AC Voltage Measurement [$\sim$ V]



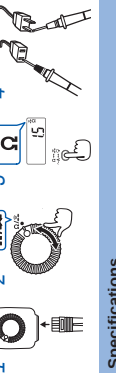
DC Voltage Measurement [$\equiv$ V]



Resistance Measurement [Ω]



Continuity check [$\rightarrow$]



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, 3280-20F) 2000 A AC continuous (45 Hz to 66 Hz) • Flexible loop (3280-10F+CT6280 or 3280-20F+CT6280) 4200 A AC continuous (60 Hz to 60 Hz)
Maximum input voltage	600 V AC/DC (AC/DCV or less (AC/DCV))

Overload protection	600 V AC/DC (AC/DCV/Q/continuity)
Maximum rated voltage to earth	• Jaw, CT6280 600 V AC (Measurement category III) 300 V AC (Measurement category IV) (Anticipated transient overvoltage: 6000 V) • Voltage measurement terminal 600 V AC (Measurement category II) 300 V AC (Measurement category III) (Anticipated transient overvoltage: 4000 V)

AC measurement method	3280-10F: Average value measurement RMS method 3280-20F: True RMS measurement method
Display update rate	400 ms/25 ms

Noise rejection characteristics	NMR DCV: -40 dB or more (50 Hz/60 Hz) CMRR DCV: -100 dB or more (50 Hz/60 Hz, 1 kQ unbalance) ACV: -50 dB or more (50 Hz/60 Hz, 1 kQ unbalance) Bu: -45 dB or more for 600 V range.
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Crest factor For 2500 counts or less, 2.5

Zero-display range 5 counts (AC Current, jaw - flexible loop)

Effects of conductor position • 3280-10F, 3280-20F: within $\pm 5.0\%$

(At all positions around the sensor's centerpoint reference)

Maximum measurable conductor diameter • 3280-10F, 3280-20F: $\phi 33$ 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 MQ range, up to 40°C) • Humidity (no condensation): Less than 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): 30% 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)
Dustproof and waterproof	IP40 (EN60529)

Drop-proof distance	1 m on concrete
Standards	Safety: EN61010 EMC: EN61326

Power supply	CR2032 Coin-shaped lithium battery x1 (3 V DC) Maximum rated power: 15 mVA
Continuous operating time	• 3280-10F: Approx. 120 hours • 3280-20F: Approx. 70 hours

Dimensions	• 3280-10F, 3280-20F: 57Wx175Hx180 mm (2.24"W x 6.89"H x 0.63"D) • CT6280: Approx. 42Wx65Hx180 mm (1.65"W x 2.56"H x 0.71"D) (excluding the flexible loop and output cable)
Mass	• 3280-10F, 3280-20F: Approx. 100 g (3.5 oz.) (including battery) • CT6280: Approx. 71 g (2.5 oz.)

Product warranty period	3280-10F, 3280-20F, CT6280: 3 years
Accessories	• 9398 Carrying Case (CR2032 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 (Can be connected to the tip of the L9208, which comes with the instrument) • L9333 Contact Pin Set (Can be connected to the tip of the L9208, which comes with the instrument) • CR2032 Coin-shaped lithium battery (Can be connected to the tip of the L9208, which comes with the instrument)
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This product contains a CR Coin Lithium Battery which contains Perchlorate Material - special handling may apply. See www.cdsc.ca.gov/hazardouswaste/perchlorate

Function Specifications

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

Accuracy Specifications

Conditions of guaranteed accuracy

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

AC Current - Jaw (3280-10F)	Accuracy
Range	Accuracy range
42.00 A	4.00 A to 41.99 A
420.0 A	40.0 A to 419.9 A
4200 A	400 A to 4199 A
1000 A	100 A to 1000 A

AC Current - Jaw (3280-20F)	Accuracy
Range	Accuracy range
42.00 A	4.00 A to 41.99 A
420.0 A	40.0 A to 419.9 A
4200 A	400 A to 4199 A
1000 A	100 A to 1000 A

AC Current - Flexible loop (3280-10F)	Accuracy
Range	Accuracy range
42.00 A	4.00 A to 41.99 A
420.0 A	40.0 A to 419.9 A
4200 A	400 A to 4199 A
1000 A	100 A to 1000 A

AC Current - Flexible loop (3280-20F)	Accuracy
Range	Accuracy range
42.00 A	4.00 A to 41.99 A
420.0 A	40.0 A to 419.9 A
4200 A	400 A to 4199 A
1000 A	100 A to 1000 A

*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^{-4} A-Hz or more.

AC Voltage	Accuracy
Range	Accuracy range
4.200 V	0.400 V to 4.199 V
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	Accuracy
Range	Accuracy range
420.0 mV	40.0 mV to 419.9 mV
4.200 V	0.400 V to 4.199 V
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

Resistance

Resistance	Accuracy
Range	Accuracy range
420.0 Ω	40.0 Ω to 419.9 Ω
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
42.00 M Ω	4.00 M Ω to 41.99 M Ω

Continuity Check

Continuity Check	Accuracy
Range	Accuracy range
420.0 Ω	$\pm 2.0\%$ rdg. ± 4 dgt.