

CLAMP ON PROBE 3270 series AC/DC CURRENT SENSOR CT6860 series



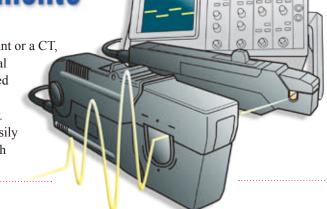
Wide-band Models from DC to 100 MHz
CLAMP ON PROBE 3276



From High Sensitivity (High S/N Ratio) to

Large Current Measurements

Because current measurement requires the insertion of a shunt or a CT, the task often becomes difficult due to breaks in the electrical path. The 3273-50 - 3276 CLAMP ON PROBEs only need to be connected directly into the BNC input on waveform observation equipment such as an oscilloscope or a recorder. Then simply clamp onto the conductor to be measured to easily observe current waveforms under a wide bandwidth and high sensitivity conditions.



Important Characteristics

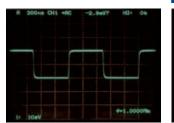
3273-50

DC to 50 MHz

3273-50



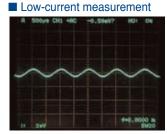
Input: 1 kHz square wave 200 mAp-p (Oscilloscope bandwidth 400 MHz)



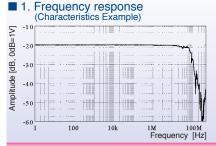
Input: 1 MHz square wave 200 mAp-p (Oscilloscope bandwidth 400 MHz)

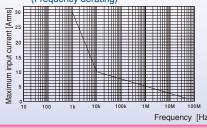


Input: 100 mAp-p (Oscilloscope bandwidth 400 MHz)

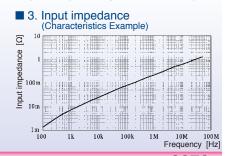


Input: 1 kHz sine wave 10 mAp-p (Oscilloscope bandwidth 20 MHz)





Continuous maximum input rating



3276

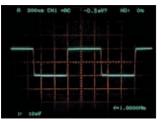
DC to 100 MHz

3276

■ Square wave response



Input: 1 kHz square wave 200 mAp-p (Oscilloscope bandwidth 400 MHz)



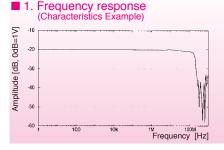
Input: 1 MHz square wave 200 mAp-p (Oscilloscope bandwidth 400 MHz)

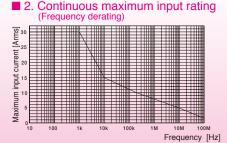


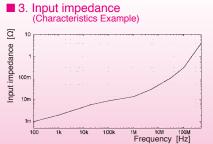
Input: 100 mAp-p (Oscilloscope bandwidth 400 MHz)



Input: 1 kHz sine wave 10 mAp-p (Oscilloscope bandwidth 20 MHz)







CLAMP ON PROBE 3273-50 to 3276

Features

- High S/N ratio: ideal for measuring milliampere waveforms (Model 3273-50)
- Capable of waveform monitoring from wide band and minute currents to large currents (Model 3274)
- Permits waveform observation of large current of up to 500 Arms
- Wide-band waveform observations, from DC to 100 MHz (Model
- Direct connection to BNC input of oscilloscope
- Highly accurate current detection
- Newly developed indium-antimony (InSb) thin-film Hall element
- Simple overload protector prevents damage due to overheating
- Easy measurement
- The 3273-50 includes a soft case, the 3274 / 3275 /3276 includes a hard carrying case



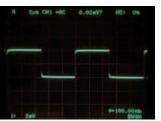
■ Waveform Example Lighting Inverter 200 mA/div 20 µs/div Press Machine Load Current 50 A/div 10 ms/div Automobile Starter Current 100 A/div 1 s/div

3274 DC to 10 MHz 3274

Square wave response



Input: 100 Hz square wave 20 Ap-p (Oscilloscope bandwidth 100 MHz)



Input: 100 kHz square wave 400 mAp-p (Oscilloscope bandwidth 100 MHz)

■ Transient response



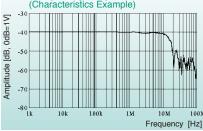
Input: 1 Ap-p (Oscilloscope bandwidth 100 MHz)

Low-current measurement

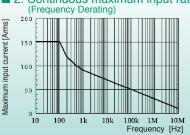


Input: 1 kHz sine wave 50 mAp-p (Oscilloscope bandwidth 100 MHz)

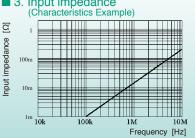
1. Frequency response (Characteristics Example)



2. Continuous maximum input rating (Frequency Derating)



■ 3. Input impedance (Characteristics Example)

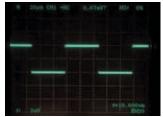


3275 DC to 2 MHz 3275

Square wave response



Input: 100 Hz square wave 300 Ap-p (Oscilloscope bandwidth 20 MHz)



Input: 10 kHz square wave 400 mAp-p (Oscilloscope bandwidth 20 MHz)

Transient response



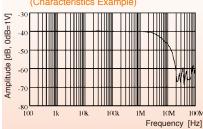
Input: 1 Ap-p (Oscilloscope bandwidth 20 MHz)

Low-current measurement

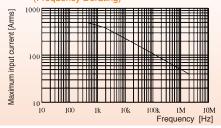


Input: 1 kHz sine wave 50 mAp-p (Oscilloscope bandwidth 20 MHz)

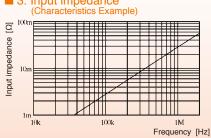
Frequency response (Characteristics Example)



Continuous maximum input rating (Frequency Derating)



■ 3. Input impedance



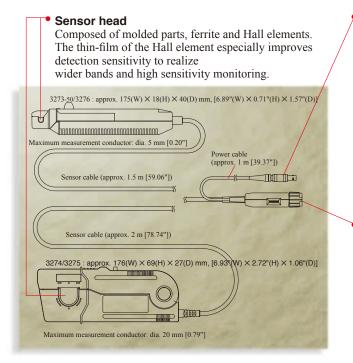
CLAMP ON PROBE 3273-50 to 3276





■ 3273-50 / 3276 Specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 6 months)

		3273-50	3276	
Frequency bandwidth		DC to 50 MHz (-3 dB) * See Fig. 1 on page 1.	DC to 100 MHz (-3 dB) * See Fig. 1 on page 1.	
Rise time		7 ns or less	3.5 ns or less	
Continuous rinput range	maximum	30 Arms * Frequency derating see Fig. 2 on page 1.	30 Arms * Frequency derating see Fig. 2 on page 1.	
Maximum pe value	eak current	Non-continuous 50 Apeak	Non-continuous 50 Apeak	
Output volta	ge rate	0.1 V/A	0.1 V/A	
Amplitude a	ccuracy	±1.0% rdg. ±1 mV (0 to 30 Arms / DC, 45 to 66 Hz) ±2.0% rdg. (30 Arms to 50 Apeak / DC, 45 to 66 Hz)	±1.0% rdg. ±1 mV (0 to 30 Arms / DC, 45 to 66 Hz) ±2.0% rdg. (30 Arms to 50 Apeak / DC, 45 to 66 Hz)	
Noise		2.5 mArms or less (measured with 20 MHz bandwidth equipment)	2.5 mArms or less (measured with 20 MHz bandwidth equipment)	
Input impeda	ance	* See Fig. 3 on page 1.	* See Fig. 3 on page 1.	
Sensitivity te characteristi		Within ±2% (At 50 Hz/30 Arms input, 0 to 40°C [32 to 104°F])	Within ±2% (from 0 to 40 °C [32 to 104 °F])	
Maximum ra	ted power	5.6 VA (Input within the maximum input range.)	5.3 VA (Input within the maximum input range.)	
Power suppl	y voltage	±12 V ±0.5 V	±12 V ±0.5 V	
Operating temperature and humidity		0 to 40°C [32 to 104°F], 80% rh or less (no condensation)	0 to 40°C [32 to 104°F] , 80% rh or less (no condensation)	
Storage temperature and humidity		-10 to 50°C [14 to 122°F], 80% rh or less (no condensation)	-10 to 50°C [14 to 122°F], 80% rh or less (no condensation)	
Effect of external magnetic fields		Max. 20 mA (equivalent) (DC and 60 Hz, Magnetic field of 400 A/m)	Max. 5 mA (equivalent) (DC and 60 Hz, Magnetic field of 400 A/m)	
Max. rated voltage to earth		300 V, CAT-I (insulated conductor)	300 V, CAT-I (insulated conductor)	
Measurement conductor		Diameter max. 5 mm [0.20"]	Diameter max. 5 mm [0.20"]	
Dimensions and mass		Sensor: approx. $175(W) \times 18(H) \times 40(D)$ mm; 230 g [6.89"(W) \times 0.71"(H) \times 1.57"(D), 8.1 oz.] Termination unit: approx. $27(W) \times 55(H) \times 18(D)$ mm [1.06"(W) \times 2.17"(H) \times 0.71"(D)]	Sensor: approx. 175(W) × 18(H) × 40(D) mm; 240 g [6.89"(W) × 0.71"(H) × 1.57"(D), 8.5 oz.] Termination unit: approx. 27(W) × 55(H) × 18(D) mm [1.06"(W) × 2.17"(H) × 0.71"(D)]	
Cable length		Sensor cable: approx. 1.5 m [59.06"] (BNC connector) Power cable: approx. 1 m [39.37"]	Sensor cable: approx. 1.5 m [59.06"] (BNC connector) Power cable: approx. 1 m [39.38"]	
Supplied accessories		Soft case × 1	Hard case X 1	
Applicable standards	Safety standards	EN 61010 Measurement category I (anticipated transient overvoltage 1500 V), Pollution Degree 2	EN 61010 Measurement category I (anticipated transient overvoltage 1500 V), Pollution Degree 2	
	EMC	EN 61326 EN 61000-3-2 EN 61000-3-3	EN 61326 EN 61000-3-2 EN 61000-3-3	



Power supply plug

Connects to the FET probe power supply outlet of an oscilloscope or to the optional 3269 / 3272 power supply unit.

(Provided that connector type, pin assignment, voltage, and capacity rating match, the 3273-50 to 3276 can be powered also from another source. For operation safety, be sure to refer to the specifications to ensure an exact match.)

Power supply plug pin assignment (Plug as seen from the front)



1 : Not connected

2 : GND 3 : V- (-12V)

4 : V+ (+12V)

* Connector type: LEMO inc./ FFA.0S.304.CLAC42Z

BNC output connector

Can be connected directly to the BNC input of an oscilloscope or level recorder or similar device.

Output voltage rate: 0.1 V/A (3273-50 / 3276) 0.01 V/A (3274 / 3275)

(Use only equipment with an input impedance of 1 $M\Omega$ or more.)

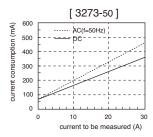
3274

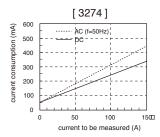
CLAMP ON PROBE 3273-50 to 3276

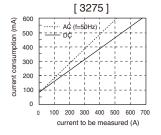
■ 3274 / 3275 Specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 6 months)

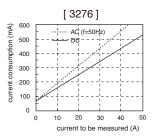
		3274	3275	
Frequency bandwidth		DC to 10 MHz (-3 dB) * See Fig. 1 on page 2.	DC to 2 MHz (-3 dB) * See Fig. 1 on page 2.	
Rise time		35 ns or less	175 ns or less	
Continuous r input range	maximum	150 Arms * Frequency derating see Fig. 2 on page 2.	500 Arms * Frequency derating see Fig. 2 on page 2.	
Maximum pe value	eak current	Non-continuous 300 Apeak 500 A peak at pulse width of \leq 30 μ s	Non-continuous 700 Apeak	
Output voltag	ge rate	0.01 V/A	0.01 V/A	
Amplitude ad	ccuracy	±1.0% rdg. ±1 mV (0 to 150 Arms / DC, 45 to 66 Hz) ±2.0% rdg. (150 Arms to 300 Apeak / DC, 45 to 66 Hz)	±1.0% rdg. ±5 mV (0 to 500 Arms / DC, 45 to 66 Hz) ±2.0% rdg. (500 Arms to 700 Apeak / DC, 45 to 66 Hz)	
Noise		25 mArms or less (measured with 20 MHz bandwidth equipment)	25 mArms or less (measured with 20 MHz bandwidth equipment)	
Input impeda	ance	* See Fig. 3 on page 2.	* See Fig. 3 on page 2.	
Sensitivity temperature characteristics		Within ±2% (At 55 Hz/150 A input, 0 to 40°C [32 to 104°F])	Within ±2% (At 50 Hz/500 A input, 0 to 40°C [32 to 104°F])	
Maximum rat	ted power	5.5 VA (Input within the maximum input range.)	7.2 VA (Input within the maximum input range.)	
Power suppl	y voltage	±12 V ±1 V	±12 V ±0.5 V	
Operating temperature and humidity		0 to 40°C [32 to 104°F], 80% rh or less (no condensation)	0 to 40°C [32 to 104°F], 80% rh or less (no condensation)	
Storage temperature and humidity		-10 to 50°C [14 to 122°F] , 80% rh or less (no condensation)	-10 to 50°C [14 to 122°F], 80% rh or less (no condensation)	
Effect of external magnetic fields		Max. 150 mA (equivalent) (DC and 60 Hz, Magnetic field of 400 A/m)	Max. 800 mA (equivalent) (DC and 60 Hz, Magnetic field of 400 A/m)	
Max. rated voltage to earth		600 V CAT-II, 300 V CAT-III (insulated conductor)	600 V CAT-II, 300 V CAT-III (insulated conductor)	
Measuremer	nt conductor	Diameter max. 20 mm [0.79"]	Diameter max. 20 mm [0.79"]	
Dimensions and mass		Sensor: approx. $176(W) \times 69(H) \times 27(D)$ mm; 500 g [6.93"(W) \times 2.72"(H) \times 1.06"(D), 17.6 oz.] Termination unit: approx. $27(W) \times 55(H) \times 18(D)$ mm [1.06"(W) \times 2.17"(H) \times 0.71"(D)]	Sensor: approx. $176(W) \times 69(H) \times 27(D)$ mm; 520 g [6.93"(W) \times 2.72"(H) \times 1.06"(D), 18.3 oz.] Termination unit: approx. $27(W) \times 55(H) \times 18(D)$ mm [1.06"(W) \times 2.17"(H) \times 0.71"(D)]	
Cable length		Sensor cable: approx. 2 m [78.74"] (BNC connector) Power cable: approx. 1 m [39.37"]	Sensor cable: approx. 2 m [78.74"] (BNC connector) Power cable: approx. 1 m [39.37"]	
Supplied accessories		Hard case × 1	Hard case × 1	
Applicable standards	Safety standards	EN 61010 Overvoltage category II, III (anticipated transient overvoltage 4000 V), Pollution Degree 2	EN 61010 Overvoltage category II, III (anticipated transient overvoltage 4000 V), Pollution Degree 2	
	EMC	EN 61326 EN 61000-3-2 EN 61000-3-3	EN 61326 EN 61000-3-2 EN 61000-3-3	

■ Current consumption of the 3273-50 to 3276 (sum of real values).









Power Supply for Clamp-on Probes

POWER SUPPLY **3269**, **3272**



- Power supply for the Clamp on probe 3273-50 3276, CT6700 series
- Supplies power when connected to a general-purpose instrument such as a recorder.

■ Basic specifications

Basic specifications				
	3269	3272		
Compatible sensors	Model CT6700, CT6701, 3273-50, 3274, 3275 or 3276: up to 4 units Note: Also up to 4 units for the discontinued Model 3273	Model CT6700, CT6701: up to 2 units Model 3273-50, 3274, 3275 or 3276: up to 1 unit Note: May be used with up to 2 units of Model 3273 (not -50 type), and up to 2 units of Models 3273-50, 3274, 3275 or 3276 on condition that the measurement current is suf- ficiently low.		
Number of power supply connectors 4		2		
Output	±12 V ±0.5 V, ±2.5 A (sum total of all channels)	$\pm 12~V~\pm 0.5~V,600~mA$ (sum total of all channels)		
Power supply	100 V to 240 V AC (free) 50/60 Hz 170 VA max.	$100\ V$ or $120/\ 220/\ 240\ V$ AC (specify when ordering), $50/60\ Hz\ 20\ VA$ max.		
Dimensions and mass	80 mm (3.15 in)W × 119 mm (4.69 in)H × 200 mm (7.87 in)D, 1.1 kg (38.8 oz)	73 mm (2.87 in)W \times 110 mm (4.33 in)H \times 186 mm (7.32 in)D, 1.1 kg (38.8 oz)		
Accessories	Instruction manual ×1, Power cord ×1	Power cord ×1, Instruction manual ×1, Spare fuse ×1		

Wide-Bandwidth, High-Precision and Large Current Measurements

AC/DC CURRENT SENSOR CT6865, 9709

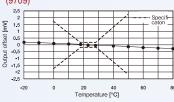


- 1000A large current measuring applications in the fields of electric and hybrid electric vehicles (CT6865)
- Operating temperature range of -30°C to 85°C (CT6865)
- Super high precision, ±0.05% amplitude accuracy, ±0.2° phase accuracy
- Wide-bandwidth DC to 20 kHz (CT6865), 100 kHz (9709) excellent frequency
- Ideal for evaluation of solar power generation and fuel cells to measure battery charge and discharge and the secondary side of inverters
- For observing waveforms to be used with the oscilloscopes or Memory HiCorders (use with SENSOR UNIT)

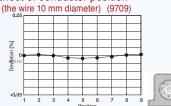
■ Basic specifications

	CT6865 (Accuracy guaranteed for 1 year, Post-adjustmentaccuracy guaranteed for 1 year)	9709 (Accuracy guaranteed for 6 months, Postadjustment accuracy guaranteed for 6 months)	
Rated current	1000 A AC/DC	500 A AC/DC	
Max. allowable input	1200 A AC/DC (Continuous 1800 A peak, up to 100 Hz, up to 40 °C (104 °F), other requires derating characteristics)	700 Arms (1000 Apeak, requires derating at frequency)	
Frequency characteristics	Amplitude: DC to 20 kHz Phase: DC to 1 kHz	Amplitude: DC to 100 kHz Phase: DC to 100 kHz	
Amplitude and Phase accuracy			
Output voltage rate $\begin{array}{c} 2\ V\ / \text{rated current value} \\ \text{(voltage output with the Sensor Unit, use with a device having a 1 M}\Omega\ input resistance} \end{array}$		device having a 1 MΩ input resistance or higher)	
Max. rated voltage to earth	h 1000 V AC/DC (50/60 Hz, CAT III)		
Core diameter	eter φ 36 mm (1.42 in)		
Operating temperature, humidity	-30°C to +85°C (-22°F to 185°F) 80% rh or less (with no condensation)	0°C to +50°C (32°F to 122°F) 80% rh or less (with no condensation)	
Power supply	±11 V to ±15 V DC (Power suppled via the	Sensor Unit, which supports 100 to 240 V AC)	
Power consumption	7 VA max. (at 1000 A/55 Hz, ±12 V power requirement)	5 VA max. (at 500 A/55 Hz, ±12 V power requirement)	
Dimensions and mass	160 mm (6.30 in)W × 112 mm (4.41 in)H × 50 mm (1.97 in)D, 980 g (34.6 oz), cord length 3 m (9.84 ft)	160 mm (6.30 in)W × 112 mm (4.41 in)H × 50 mm (1.97 in)D, 850 g (30.0 oz), cord length: 3 m (9.84 ft)	
Accessories Instruction manual ×1, Mark bands ×6			

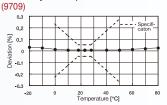
Offset - Temperature Characteristics (9709)



Effect of conductor position



Sensitivity - Temperature Characteristics



Model: AC/DC CURRENT SENSOR CT6865

Model No. (Order Code) (Note) (1000 A AC/DC) CT6865 CT6865-05

(1000 A AC/DC, 12 pin terminal)

Model: AC/DC CURRENT SENSOR 9709

Model No. (Order Code) (Note) (500A AC/DC) 9709 9709-05 (500 A AC/DC, 12 pin terminal)

Delivering Wide-bandwidth and High-precision Current Measurement

AC/DC CURRENT SENSOR CT6862. CT6863



- Super high precision, ±0.05% amplitude accuracy, ±0.2° phase accuracy
- Wide-bandwidth DC to 1 MHz (CT6862) excellent frequency characteristics
- Applications in the fields of electric and hybrid electric vehicles
- Wide operating temperature range fit for automobile applications
- Ideal for evaluation of solar power generation and fuel cells to measure battery charge and discharge and the secondary side of inverters
- For observing waveforms to be used with the oscilloscopes or Memory HiCorders (use with SENSOR UNIT)

■ Basic specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)

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	CT6862	CT6863	
Rated current	50 A AC/DC	200 A AC/DC	
Max. allowable input	100 A (requires derating)) 400 A (requires derating)	
Frequency characteristics	Amplitude: DC to 1 MHz Phase: DC to 300 kHz	Amplitude: DC to 500 kHz Phase: DC to 300 kHz	
Amplitude and Phase accuracy	DC ± 0.05 % rdg. ± 0.01 % f.s. (Phase: Not defined) $16~Hz \le f \le 400~Hz \pm 0.05$ % rdg. ± 0.01 % f.s. (Phase: $\pm 0.2^{\circ}$) Defined to 1 MHz	DC ± 0.05 % rdg. ± 0.01 % f.s. (Phase: Not defined) 16 Hz $\leq f \leq 400$ Hz ± 0.05 % rdg. ± 0.01 % f.s. (Phase: $\pm 0.2^{\circ}$) Defined to 500 kHz	
Output voltage	2 V /rated current value (voltage output with the Sensor Unit, use with a device having a 1 $M\Omega$ input resistance or higher)		
Max. rated voltage to earth			
Core diameter			
Operating temperature, humidity	-30°C to +85°C (-22°F to 185°F), 80% RH or less (with no condensation)		
Power supply	±11 V to ±15 V DC (Power suppled via the	Sensor Unit, which supports 100 to 240 V AC)	
Power consumption	5 VA max. (at 50 A/55 Hz, ±12 V power requirement)	6 VA max. (at 200 A/55 Hz, ±12 V power requirement)	
Dimensions and mass	70 mm (2.76 in)W × 100 mm (3.94 in)H × 53 mm (2.09 in)D, 340 g (12.0 oz), cord length: 3 m (9.84 ft)	70 mm (2.76 in)W × 100 mm (3.94 in)H × 53 mm (2.09 in)D, 350 g (12.3 oz), cord length: 3 m (9.84 ft)	
Accessories Instruction manual ×1, Mark bands ×6			

Model: AC/DC CURRENT SENSOR CT6862

Model No. (Order Code) (Note) CT6862 (50 A AC/DC) CT6862-05 (50 A AC/DC, 12 pin terminal)

Compatible models...CT6865 (-05), 9709 (-05)

Compatible models	CT6865	CT6865-05	9709	9709-05
Model PW6001	▲ (Requires CT9900) CT ratio: 2	✓	(Requires CT9900)	✓
Model 3390	✓ CT ratio: 2	▲ (Requires CT9901) CT ratio: 2	✓	▲ (Requires CT9901)
Input unit model 9602 for 3193- 10/ 3193/ 3194	✓ CT ratio: 2	(Requires CT9901) CT ratio: 2	✓	▲ (Requires CT9901)
Model 8971	▲ (Requires 9318) CT ratio: 2	▲ (Requires 9318 and CT9901) CT ratio: 2	(Requires 9318)	(Requires 9318 and CT9901)
Model 8940	▲ (Requires 9318 and 9705) CT ratio: 2	▲ (Requires 9318, 9705, and CT9901) CT ratio: 2	▲ (Requires 9318 and 9705)	▲ (Requires 9318, 9705, and CT9901)

Model: AC/DC CURRENT SENSOR CT6863

Model No. (Order Code) (Note) CT6863 (200 A AC/DC) CT6863-05 (200 A AC/DC, 12 pin terminal)

Compatible models...CT6862 (-05), CT6863 (-05)

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Compatible models	CT6862	CT6862-05	CT6863	CT6863-05
Model PW6001	▲ (Requires CT9900)	✓	▲ (Requires CT9900)	✓
Model 3390	✓	▲(Requires CT9901)	1	▲ (Requires CT9901)
Input unit model 9602 for 3193- 10/ 3193/ 3194	1	▲ (Requires CT9901)	1	▲ (Requires CT9901)
Model 8971	▲ (Requires 9318)	(Requires 9318 and CT9901)	▲ (Requires 9318)	(Requires 9318 and CT9901)
Model 8940	N/A	N/A	▲ (Requires 9318 and 9705)	▲ (Requires 9318, 9705, and CT9901)

Shared options for CT6865, 9709, CT6862, and CT6863







■ Basic specifications (Accuracy guaranteed for 6 months, Post-adjustment accuracy guaranteed for 6 months)

Ideal for Measuring Current with Low Frequencies such as Inverter Control Devices

CLAMP ON SENSOR 9272-10



- Superior low frequency and phase characteristics suitable for testing the current and power of inverter control devices
- Wide 1 Hz to 100 kHz frequency bandwidth perfect for harmonic analysis, FFT analysis and waveform monitoring

20 A AC, or 200 A AC (selectable) Rated current Max. allowable input 50 A rms (at 20 A range), 300 A rms (at 200 A range) 1 Hz (± 2 % rdg. ± 0.1 % f.s.) to 100 kHz (± 30 % rdg. ± 0.1 % f.s.) Frequency characteristics Amplitude and Amplitude: ± 0.3 % rdg. ± 0.01 % f.s. Phase: ± 0.2 ° (45 to 66 Hz) Phase accuracy 2~V/20~A rated current range, or 2~V/200~A rated current range (voltage output with the Sensor Unit, use with a device having a 1 $M\Omega$ input resistance or higher) Output voltage Max. rated voltage to earth 600 V rms (CAT III) φ 46 mm (1.81 in) Core diameter Power supply ±11 V to ±15 V DC (Power suppled via the Sensor Unit, which supports 100 to 240 V AC) Power consumption 5 VA Max. (when measuring 200 A) 78 mm (3.07 in)W × 188 mm (7.40 in)H × 35 mm (1.38 in)D, 430 g (15.2 oz), cord length: 3 m (9.84 ft) Dimensions and mass Carrying case 9355 ×1, Instruction manual ×1, Mark bands ×6

Model 9272-10 Compatibility (use with the connection cord)

Compatible models	Status	Note	
3193-10, 3193, 3194 (use with the 9602)	/	Directly connectable, Add 0.1% rdg. to accuracy	
MR8827, MR8847s (use with the 8971)	1	To connect via the Conversion Cable 9318	
Model 8940 for Memory HiCorders	1	Need the Conversion Cable 9705, and use with the Conversion Cable 9318 to connect Model 9272-10 to the F/V Unit 8940. (Not necessary when using Model 9272 due to different output wiring specifications.)	

Model: CLAMP ON SENSOR 9272

Model No. (Order Code) (Note) 9272-10 (20/200 A AC)

Note: This product cannot be used alone. The optional Sensor Unit is required in order to supply power and connect the clamp to a Memory HiCorder or other instrument. The clamp can be directly connected the compatible Power Meter.

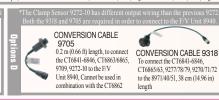


CAT III 600 V





■ Basic specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)



Power supplies for high-precision current sensors

SENSOR UNIT CT9555, CT9556, CT9557

CT9555, CT9556

 Power supplies for high-precision current sensors with waveform output functionality

CT9557

- Power supply for high-precision current sensors with waveform output functionality
- Output a single waveform from an aggregate of input waveforms



	Model CT9555		CT9556	CT9557	
nt n-	Image	CE CE	CE .	CE 222	
n	Compatible sensor	Current sensors with a Hioki ME15W (male) output connector (CT686x-05, CT684x-05, etc.)	Current sensors with a Hioki ME15W (male) output connector (CT686x-05, CT684x-05, etc.)		
	Output Terminal BNC Terminal I		BNC Terminal	BNC Terminal	
al)	Power supply	AC Adapter Z1008 (100 to 240 V AC, 50/60 Hz, 45 VA)	AC Adapter Z1008 (100 to 240 V AC, 50/60 Hz, 45 VA)	AC Adapter Z1002 (100 to 240 V AC, 50/60 Hz, 155 VA)	
	Dimensions and mass	33 mm (1.30 in)W × 67 mm (2.64 in)H × 132 mm (5.20 in)D, 200 g (7.1 oz)	33 mm (1.30 in)W × 67 mm (2.64 in)H × 132 mm (5.20 in)D, 200 g (7.1 oz)	116 mm (4.57 in)W × 67 mm (2.64 in)H × 132 mm (5.20 in)D, 420 g (14.8 oz)	

Model: ENSOR UNIT

Model No. (Order Code) (Note)

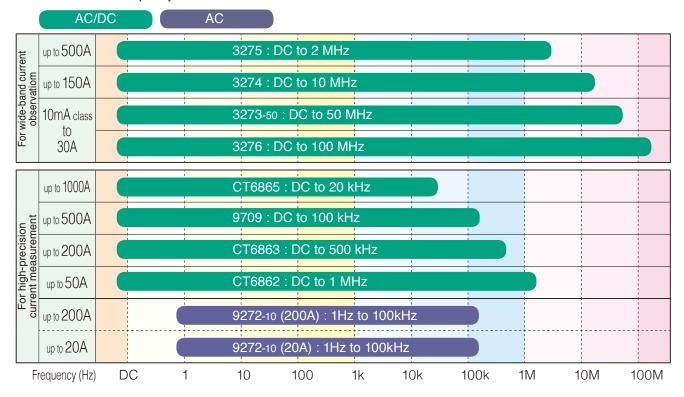
CT9555 (For the CT6841-05, etc., using Hioki ME15W connector)
CT9556 (For the CT6841-05, etc., using Hioki ME15W connector)
CT9557 (For the CT6841-05, etc., using Hioki ME15W connector)

Accessories: CT9555, CT9556: AC Adapter Z1008 \times 1, Power cord \times 1, Instruction manual \times 1, CT9557: AC Adapter Z1002 \times 1, Power cord \times 1, Instruction manual \times 1

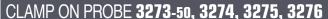
Shared options for CT9555, CT9556 and CT9557



■ Rated current & Frequency characteristics



Wide-Band Current Probe Allows Direct Input to Oscilloscope





Note: Use the Power Supply 3269/3272 for general measurements or when power is not available from the Memory Hicorder. When performing continuous measurements, be aware of offset voltage drift.

Model: CLAMP ON PROBE 3273

Model No. (Order Code) (Note)
3273-50 (DC to 50 MHz, 30 Arms)

Model: CLAMP ON PROBE 3274

Model No. (Order Code) (Note)

3274 (DC to 10 MHz, 150 Arms)

Model: CLAMP ON PROBE 3275

Model No. (Order Code) (Note)

3275 (DC to 2 MHz, 500 Arms)

Model: CLAMP ON PROBE 3276

Model No. (Order Code) (Note)

3276 (DC to 100 MHz, 30 Arms)



MARNING



1. To avoid short circuits and electric shock accidents when using a clamp-on sensor, use only with power lines carrying voltages within the rating limit of the sensor.

2. To avoid short circuits and electric shock accidents when the element of a population of the sensor.

2. To avoid short circuits and electric shock accidents when the clamp-on sensor is open, do not use on bare conductors.

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