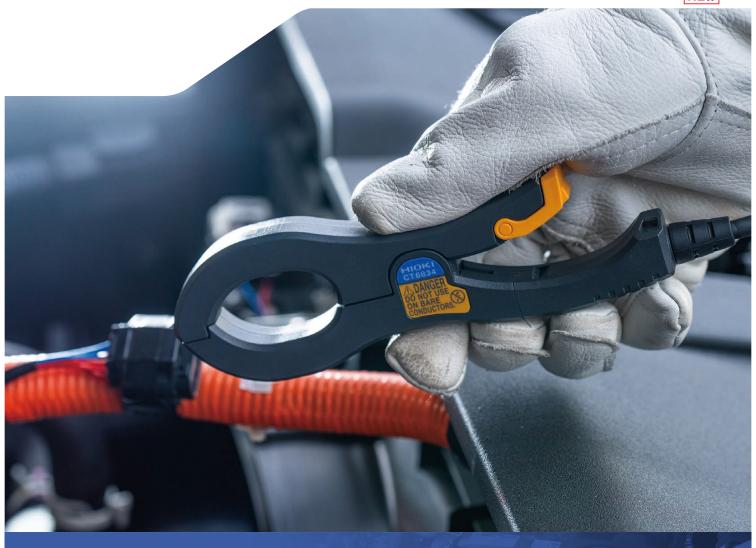


AC/DC CURRENT PROBE CT6833, CT6834 AC/DC CURRENT PROBE CT6830, CT6831 AC/DC CURRENT SENSOR CT7812, CT7822



Unrivaled sensing technology

HIOKI's new current sensor features a small size while delivering precise and reliable performance across a wide temperature range. Perfect for automotive testing, it simplifies installation in tight spaces, enhances measurement accuracy, and improves testing efficiency. Experience innovation that saves time and increases accuracy,.



CT6833

CT6834

200A (RMS) **500A** (RMS)

Measurement accuracy Frequency range +0.07 % of reading DC to 50 kHz



CT6830 CT7812

CT6831 CT7822

2A (RMS)

20A (RMS)

Measurement accuracy +0.3 % of reading

Frequency range DC to 100 kHz

CE

www.GlobalTestSupply.com



Current probes for automotive certification testing

With its compact design, these sensors easily connect to cables in tight motor compartments, significantly reducing setup-time and enhancing overall efficiency.

Current rating: **200 A** (CT6833), **500 A** (CT6834)

Frequency range: DC to 50 kHz

Accuracy: ±0.07% of reading

Operating Temperature: -40°C to +85°C

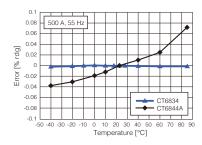
50% smaller than the previous model





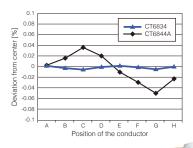
Advanced fluxgate technology that redefines measurement performance

Superior temperature stability



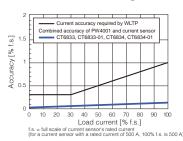


High reproducibility regardless of conductor position





Exceptional accuracy for WLTP across all current ranges







The future standard in a compact size.

The CT6830, CT6831, CT7812, and CT7822 were developed with the concept of "easily clamp wires in tight spaces." As the world's smallest zero-flux AC/DC current probes and sensors, these offer high accuracy with a lightweight design.

Current rating: 2 A (CT6830, CT7812), 20 A (CT6831, CT7822)

Frequency range: DC to 100 kHz

Accuracy: ±0.3% of reading

Operating Temperature: -40°C to +85°C

For precision power analyzer

CT6830

CT6831





CT7812

CT7822





Application

Pinpoint ECU issues in completed-vehicle testing

The compact CT7812 (2 A) and CT7822 (20 A) sensors access intricate wiring with ease and ensure stable, high-accuracy current measurements. Combined with the LR8450 Data Logger, they record CAN signals and current data simultaneously, enabling quick issue identification.

Maximum conductor

diameter

Ф5 mm

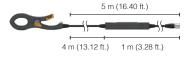
High-accuracy clamp current sensors

	CT6834, CT6834-01	CT6833, CT6833-01	CT6831, CT7822	CT6830, CT7812	
Appearance			ME15W PL14	ME15W PL14	
Rated current	500 A AC/DC	200 A AC/DC	20 A AC/DC	2 A AC/DC	
Frequency band	DC to 50 kHz	DC to 50 kHz	DC to 100 kHz	DC to 100 kHz	
Diameter of measurable conductors	Max. φ 20 mm (0.79 in.)	Max. φ 20 mm (0.79 in.)	Max. φ 5 mm (0.20 in.)	Max. φ 5 mm (0.20 in.)	
	DC : ±0.07% ±0.01%	DC : ±0.07% ±0.01%	DC : ±0.3% ±0.10%	DC : ±0.3% ±0.10%	
Sensor only (amplitude) ±(% of reading + % of full scale) Full scale is the rated current of	DC < f < 16 Hz : ±0.15% ±0.01%	DC < f < 16 Hz : ±0.15% ±0.01%	DC < f ≤ 66 Hz : ±0.3% ±0.01% (CT6831) : ±0.3% ±0.05% (CT7822)	DC < f ≤ 66 Hz : ±0.3% ±0.05%	
	16 Hz ≤ f ≤ 66 Hz : ±0.07% ±0.007%	16 Hz ≤ f ≤ 66 Hz : ±0.07% ±0.007%	66 Hz < f ≤ 500 Hz : ±0.3% ±0.02% (CT6831) : ±0.3% ±0.05% (CT7822)	66 Hz < f ≤ 500 Hz : ±0.3% ±0.05%	
	66 Hz < f ≤ 100 Hz : ±0.07% ±0.007%	66 Hz < f ≤ 100 Hz : ±0.07% ±0.007%	500 Hz < f ≤ 1 kHz : ±0.5% ±0.05%	500 Hz < f ≤ 1 kHz : ±0.5% ±0.05%	
		100 Hz < f ≤ 500 Hz : ±0.1% ±0.01%	1 kHz < f ≤ 5 kHz : ±1.0% ±0.10%	1 kHz < f ≤ 5 kHz : ±1.0% ±0.10%	
sensor	500 Hz < f ≤ 1 kHz : ±0.25% ±0.02%	500 Hz < f ≤ 1 kHz : ±0.25% ±0.02%	5 kHz < f ≤ 10 kHz : ±5.0% ±0.10%	5 kHz < f ≤ 10 kHz : ±5.0% ±0.10%	
	1 kHz < f ≤ 20 kHz : ±(0.25 × f)% ±0.02%	1 kHz < f \leq 20 kHz : \pm (0.25 \times f)% \pm 0.02%	10 kHz < f ≤ 100 kHz : ±30% ±0.02%	10 kHz < f ≤ 100 kHz : ±30% ±0.02%	
Operating temperature	Sensor: -40°C to 85°C (-40°F to 185°F), 80% RH or less Relay box: -25°C to 50°C (-77°F to 122°F), 80% RH or less	Sensor: -40°C to 85°C (-40°F to 185°F), 80% RH or less Relay box: -25°C to 50°C (-77°F to 122°F), 80% RH or less	Sensor: -40°C to 85°C (-40°F to 185°F), 80% RH or less Relay box: -25°C to 50°C (-77°F to 122°F), 80% RH or less	Sensor: -40°C to 85°C (-40°F to 185°F), 80°, RH or less Relay box: -25°C to 50°C (-77°F to 122°F), 80% RH or less	
Dimensions	Sensor: approx. 149W × 46H × 16.5D mm (approx. 5.87W × 1.81H × 0.65D in.) Relay box: approx. 126W × 57H × 20.5D mm (approx. 4.96W × 2.24H × 0.81D in.)	Sensor: approx. 149W × 46H × 16.5D mm (approx. 5.87W × 1.81H × 0.65D in.) Relay box: approx. 126W × 57H × 20.5D mm (approx. 4.96W × 2.24H × 0.81D in.)	Sensor: approx. 76.5W × 23.4H × 14.2D mm (approx. 3.00W × 0.92H × 0.56D in.) Relay box: approx. 80W × 20H × 26.5D mm (approx. 3.15W × 0.79H × 1.04D in.)	Sensor: approx. 76.5W × 23.4H × 14.2D mm (approx. 3.00W × 0.92H × 0.56D in.) Relay box: approx. 80W × 20H × 26.5D mm (approx. 3.15W × 0.79H × 1.04D in.)	
Connector type HIOKI ME15W		HIOKI ME15W	CT6831: HIOKI ME15W CT7822: HIOKI PL14	CT6833: HIOKI ME15W CT7812: HIOKI PL14	
Cable length CT6834: approx. 5 m (16.40 ft.) including relay box CT6834-01: approx. 10 m (32.81 ft.) including relay box		CT6833: approx. 5 m (16.40 ft.) including relay box CT6833-01: approx. 10 m (32.81 ft.) including relay box	Between sensor and relay box: approx. 4 m (13.12 ft.) Between relay box and output connector: approx. 0.2 m (0.66 ft.)	Between sensor and relay box: approx. 4 m (13.12 ft.) Between relay box and output connector: approx. 0.2 m (0.66 ft.)	
Weight	CT6834: approx. 500 g (17.64 oz.) CT6834-01: approx. 710 g (25.05 oz.)	CT6833: approx. 500 g (17.64 oz.) CT6833-01: approx. 710 g (25.05 oz.)	CT6831: approx. 160 g (5.64 oz.) CT7822: approx. 140 g (4.94 oz.)	CT6830: approx. 160 g (5.64 oz.) CT7812: approx. 140 g (4.94 oz.)	
Derating properties		1 200 1 2 100	T.: ambient temperature 30 A (40°C e T + 50°C) 10 20 A (40°C e T + 50°C) 10 10 10 10 11 11 10 10 11 11 10 10 10 1	To antivert temperature To antivert temperatu	

Custom cable lengths are also available. Please inquire with your Hioki distributor.

Cable lengths

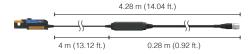
CT6833, CT6834



CT6833-01, CT6834-01



CT6830, CT6831, CT7812, CT7822



Options

CT6830, CT6831, CT6833, CT6834, CT6833-01, CT6834-01					
POWER ANALYZER POWER ANALYZER	PW8001 PW4001	CURRENT UNIT	U8977		
POWER ANALYZER POWER ANALYZER	PW4001 PW6001	POWER MESUREMENT	147400		
POWER ANALYZER	PW3390	MODULE	M7103		



External power supplies and connection cords













Power supply for current sensor (1ch, with waveform output) Sensor Unit

CT9556 Power supply for current sensor (1ch, with waveform/RMS output. Waveform and RMS outputs can be used simultaneously)

CURRENT MODULE

WIRELESS CURRENT

CT9557 C19557
Power supply for current sensor (4ch, with additive function, waveform/RMS output. Waveform and RMS outputs can be used simultaneously)

BNC with insulation on both ends of the cord, 1.6 m (5.25 ft.) cord, used for metallic BNC terminals, 1.5 m (4.92 ft.)

Extention cable **Connection Cord** BNC with metal on both ends of the

CT9902 HIOKI ME15W (12 pin) - HIOKI ME15W (12 pin) connector, 5 m (16.40 ft.)* *Connects up to 2 cables

CT7812, CT7822				
	U8556			
MODILLE	LB8536			



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