

HIOKI

AC/DC CURRENT PROBE CT6844-05, CT6845-05, CT6846-05

0.3% Accuracy



500/1000A

Ergonomic clamp design delivers single-handed, one-touch opening and closing

CT6844-05
- 500A AC/DC
- DC to 200kHz
- ϕ 20mm (0.79 in)

CT6845-05
- 500A AC/DC
- DC to 100kHz
- ϕ 50mm (1.97 in)

CT6846-05
- 1000A AC/DC
- DC to 20kHz
- ϕ 50mm (1.97 in)



Compact form lets you easily measure even in tangled wiring



Large diameter for clamping even thick cables and double wiring



Consistent, high-precision high-current testing across a wide temperature range

Ideal for thermostatic chambers and engine rooms

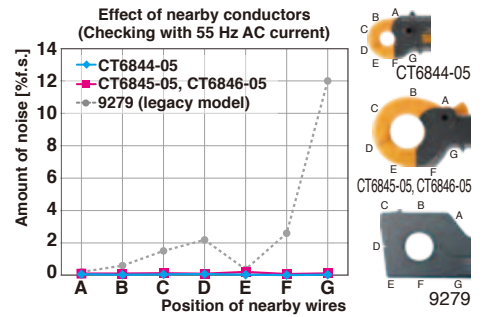
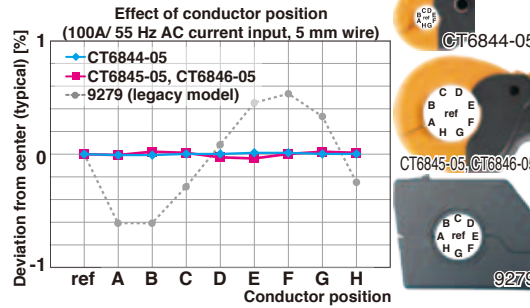
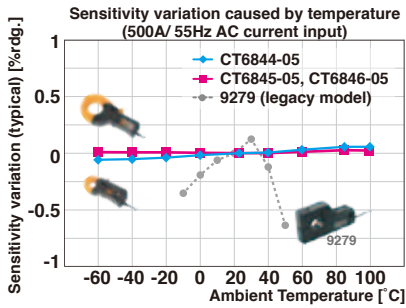
Reduced effect of the position of the conductor in the clamp

Reduced effect of noise from nearby wires

The CT6844-05/ CT6845-05/ CT6846-05 are ideal for operational evaluations of devices inside equipment that is subject to extreme temperature changes, offering tough, high-precision testing.

Conductor position changes within the clamp core have little effect on measured values.

Minimal effect is observed from current in nearby wires when measuring in crowded wiring.

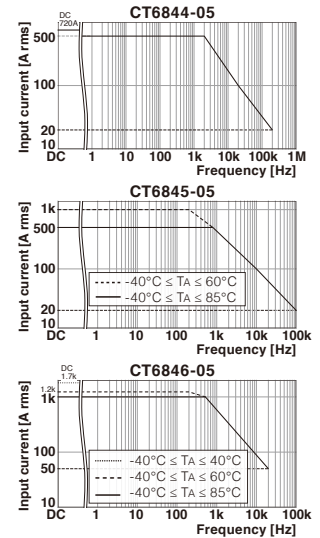


Specifications

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

	CT6844-05	CT6845-05	CT6846-05
Rated primary current	500 A AC/DC	500 A AC/DC	1000 A AC/DC
Frequency characteristics	DC to 200 kHz	DC to 100 kHz	DC to 20 kHz
Measurable conductor diameter	φ20 mm (0.79 in) or less	φ50 mm (1.97 in) or less	φ50 mm (1.97 in) or less
Output voltage	4 mV/A	4 mV/A	2 mV/A
Basic accuracy (50/60 Hz)	Amplitude accuracy: ±0.3% rdg. ±0.01% f.s. Phase accuracy: ±0.1°		Amplitude accuracy: ±0.3% rdg. ±0.02% f.s.
Basic accuracy (DC)	Amplitude accuracy: ±0.3% rdg. ±0.02% f.s.		
Temperature and humidity range of guaranteed accuracy	0°C to +40°C (32 °F to 104 °F), 80% RH or less (no condensation)		
Operating temperature and humidity	-40°C to +85°C (-40 °F to 185 °F), 80% RH or less (no condensation)		
Effect of conductor position	±0.1% rdg. or less	±0.1% rdg. or less	±0.2% rdg. or less
Effect of external magnetic fields	100 mA or less (Scaled value, in a DC and 60 Hz magnetic field of 400 A/m)	150 mA or less (Scaled value, in a DC and 60 Hz magnetic field of 400 A/m)	150 mA or less (Scaled value, after 1000 A AC/ DC input)
Magnetic susceptibility	75 mA or less (Scaled value, after 500 A AC/ DC input)	75 mA or less (Scaled value, after 500 A AC/ DC input)	150 mA or less (Scaled value, after 1000 A AC/ DC input)
Effect of common-mode voltage	0.05% f.s. or less (1000 Vrms, 50/60Hz DC)		
Dimensions & Mass	153W × 67H × 25D mm (6.02"W × 2.64"H × 0.98"D), 400 g (14.1 oz), cord length 3 m (9.84 ft)	238W × 116H × 35D mm (9.37"W × 4.57"H × 1.38"D), 860 g (30.3 oz), cord length 3 m (9.84 ft)	238W × 116H × 35D mm (9.37"W × 4.57"H × 1.38"D), 990 g (34.9 oz), cord length 3 m (9.84 ft)
Accessories	Instruction manual x1 (for each of Japanese, English and Chinese), Mark band x6, Carrying case x1		

Derating



Compatible power meters

AC/DC CURRENT PROBE Order Code	Connector type	POWER ANALYZER PW6001	POWER ANALYZER PW3390	POWER HITESTER 3193-10	POWER HITESTER 3334-10	Connector types
CT6844-05 (500A, φ20 mm)	ME15W	✓	✓	*	*	
CT6844 (500A, φ20 mm)	PL23	*	*	✓	✓	
CT6845-05 (500A, φ50 mm)	ME15W	✓	✓	*	*	
CT6845 (500A, φ50 mm)	PL23	*	*	✓	✓	
CT6846-05 (1000A AC/DC)	ME15W	✓	✓	*	*	
CT6846 (1000A AC/DC)	PL23	*	*	✓	✓	
Other products in the AC/DC Current Probe series						
CT6841-05 (20A AC/DC)	ME15W	✓	✓	*	*	
CT6841 (20A AC/DC)	PL23	*	*	✓	✓	
CT6843-05 (200A AC/DC)	ME15W	✓	✓	*	*	
CT6843 (200A AC/DC)	PL23	*	*	✓	✓	

* CONVERSION CABLE is required.

Options

For output to oscilloscope/recorder

Sensor connector conversion

Extension cables

SENSOR UNIT CT9555
Power supply for current sensors when used alone. 1ch, with Waveform output

SENSOR UNIT CT9556
Power supply for current sensors when used alone. 1ch, with Waveform/RMS output

SENSOR UNIT CT9557
Power supply for current sensors when used alone. 4ch, with Waveform/Total Waveform/Total RMS output

CONNECTION CORD L9217
Cord has insulated BNC connectors at both ends, 1.6 m (5.25 ft) length

CONVERSION CABLE CT9901
ME15W to PL23

CONVERSION CABLE CT9900
PL23 to ME15W

EXTENSION CABLE CT9902
Extend an additional 5m (16.41 ft). Connect up to 2 cables in a series. ME15W - ME15W

EXTENSION CABLE 9706
Extend an additional 5m (16.41 ft). Connect up to 2 cables in a series. PL23 - PL23

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