



## AC/DC CURRENT PROBE CT6844, CT6845, CT6846

**0.3%**  
Accuracy

Current Sensors



**500/1000A**

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

### CT6844

- 500A AC/DC
- DC to 200kHz
- $\phi$  20mm (0.79 in)

### CT6845

- 500A AC/DC
- DC to 100kHz
- $\phi$  50mm (1.97 in)

### CT6846

- 1000A AC/DC
- DC to 20kHz
- $\phi$  50mm (1.97 in)



CE



CE

Compact form lets you easily measure even in tangled wiring



CE

Large diameter for clamping even thick cables and double wiring

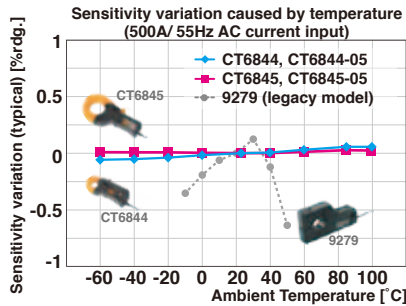


CE

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

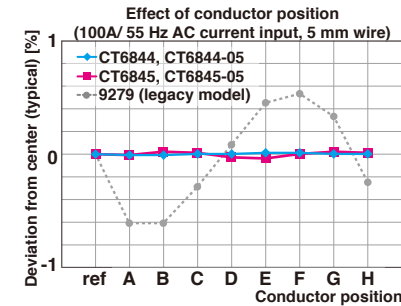
## Ideal for thermostatic chambers and engine rooms

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



## Resistant to conductor position effects

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



## Resistant to external magnetic fields

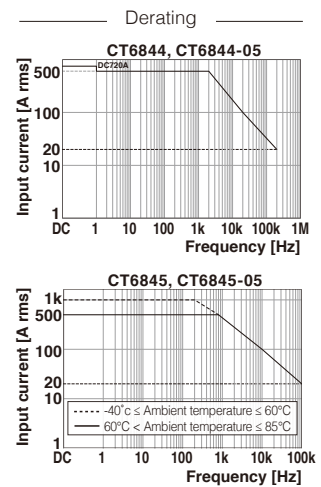
Minimal effect is observed from current in nearby wires when measuring in crowded wiring.



## Specifications

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

	CT6844, CT6844-05	CT6845, CT6845-05	CT6846, CT6846-05
Rated primary current	500 A AC/DC		1000 A AC/DC
Frequency characteristics	DC to 200 kHz		DC to 100 kHz
Measurable conductor diameter	φ20 mm (0.79 in) or less		φ50 mm (1.97 in) or less
Output voltage	4 mV/A		2 mV/A
Basic accuracy (50/60 Hz)	Amplitude accuracy: ±0.3% rdg. ±0.01% f.s.		Phase accuracy: ±0.1 deg
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		±0.2% 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)
Magnetic susceptibility	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)		
Accessories	Instruction manual x1 (for each of Japanese, English and Chinese), Mark band x6, Carrying case x1		

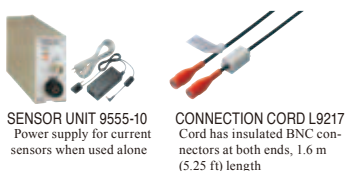


## Compatible power meters

AC/DC CURRENT PROBE	Connector type	POWER ANALYZER PW6001	POWER ANALYZER 3390	POWER HITESTER 3193-10	POWER HITESTER 3334-10	Connector types
Order Code						
CT6844 (500A AC/DC).....	PL23	✓	✓	✓	✓	HIOKI PL23
CT6844-05 (500A AC/DC).....	ME15W	✓	✓	✓	✓	
CT6845 (500A AC/DC).....	PL23	✓	✓	✓	✓	HIOKI ME15W (-05 models)
CT6845-05 (500A AC/DC).....	ME15W	✓	✓	✓	✓	
CT6846* (1000A AC/DC).....	PL23	✓	✓	✓	✓	
CT6846-05* (1000A AC/DC).....	ME15W	✓	✓	✓	✓	
* Available soon						
<b>Other products in the AC/DC Current Probe series</b>						
Order Code						
CT6841 (20A AC/DC).....	PL23	✓	✓	✓	✓	
CT6841-05 (20A AC/DC).....	ME15W	✓	✓	✓	✓	
CT6843 (200A AC/DC).....	PL23	✓	✓	✓	✓	
CT6843-05 (200A AC/DC).....	ME15W	✓	✓	✓	✓	

## Options

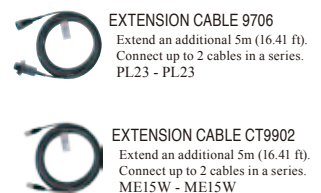
For output to oscilloscope/recorder



Sensor connector conversion



Extension cables



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