




HIOKI

CLAMP ON AC/DC SENSOR

CT9691-90 CT9692-90 CT9693-90

Clamp Sensor 

AC/DC Clamp Sensors to Meet New DC Measurement Needs

Ideal for solar power generation systems, UPS and battery testing



CT9693-90
AC/DC
2000A/200A



Pair with MEMORY HiCORDERs or oscilloscopes to capture the peak waveforms of current from motor and vehicle starts



Pair with the Power Quality Analyzer PW3198

Select from 3 models



CT9692-90
AC/DC
200A/20A

CT9691-90
AC/DC
100A/10A



www.hioki.com

ISO 9001
JMI-0216

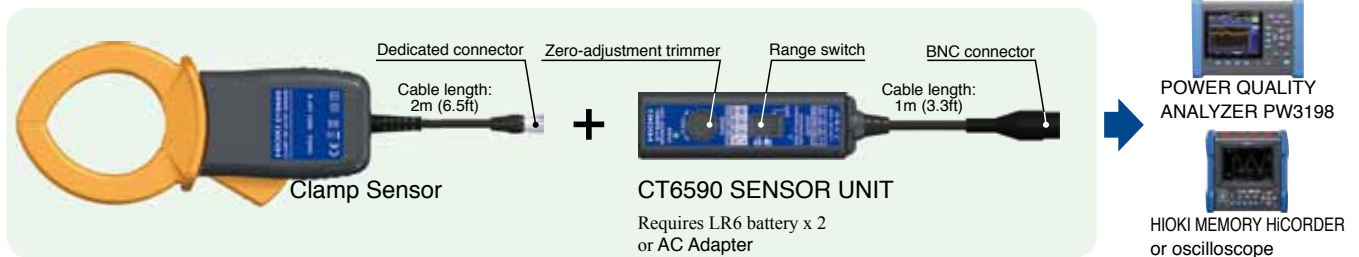
ISO 14001
JQA-E-90091

HIOKI company overview, new products, environmental considerations and other information are available on our website.



Overview

The CT9691-90, CT9692-90, and CT9693-90 represent the respective clamp sensors bundled with the CT6590 Sensor Unit.



Specifications

Combined specifications Accuracy guaranteed for 1 year; Temperature and humidity for guaranteed accuracy : 23±5°C 80%rh or less (no condensation)

	CT9691-90	CT9692-90	CT9693-90
Physical appearance			
Includes	CT9691 ×1, CT6590 ×1	CT9692 ×1, CT6590 ×1	CT9693 ×1, CT6590 ×1
Rated primary current	H 100A L 10A	200A 20A	2000A 200A
Output voltage	100mV/f.s.	200mV/f.s.	200mV/f.s.
Sensor combination accuracy (Continuous input)	±1.5%rdg±1.0%f.s. (DC ≤ f ≤ 66 Hz) ±3.0%rdg±1.0%f.s. (66Hz < f ≤ 500Hz)	±1.5%rdg±0.5%f.s. (DC ≤ f ≤ 66 Hz) ±2.5%rdg±0.5%f.s. (66Hz < f ≤ 1kHz)	±2.0%rdg±0.5%f.s. (DC) ±1.5%rdg±0.5%f.s. (45 ≤ f ≤ 66Hz, I ≤ 1800A) ±2.5%rdg±0.5%f.s. (45 ≤ f ≤ 66Hz, 1800 ≤ I ≤ 2000A) ±2.5%rdg±0.5%f.s. (DC < f < 45Hz, 66Hz < f ≤ 1kHz, I ≤ 1800A)
Sensor combination accuracy (Phase)	±2deg. (DC < f ≤ 66 Hz)	±2deg. (DC < f ≤ 66 Hz)	±2deg. (45Hz ≤ f ≤ 66 Hz)

CT9691,CT9692,CT9693 (Clamp sensor) specifications

	CT9691	CT9692	CT9693
Maximum input range	100Arms continuous*1	200Arms continuous*1	2000Arms continuous*1
Maximum peak current value	150Apeak	300Apeak	2840Apeak
Measurement categories	CAT III	CAT III	CAT III
Frequency band	DC to 10 kHz (-3dB)	DC to 20 kHz (-3dB)	DC to 15 kHz (-3dB)
Derating according to frequency (continuous)			
Effect of conductor position	Within ±1.0% at 80 A (55 Hz)	Within ±0.5%	Within ±0.7%
External magneticfield interference	0.5 A equivalent or less (In an external electromagnetic field of 400 A/m)	0.7 A equivalent or less (In an external electromagnetic field of 400 A/m)	2.0 A equivalent or less (In an external electromagnetic field of 400 A/m)
Temperature characteristics	0 to 40°C range: 0.1 × accuracy specifications/°C 32 to 104°F range: 0.18 × accuracy specifications/°F		
Cable length	Approx. 2m (6.5 feet)		
Measurable conductor diameter	φ35 mm (1.38") or less	φ33 mm (1.30") or less	φ55 mm (2.17") or less
Dimensions	Approx. 53W × 129H × 18D mm Approx. 2.09"W × 5.08"H × 0.71"D	Approx. 62W × 167H × 35D mm Approx. 2.44"W × 6.57"H × 1.38"D	Approx. 62W × 196H × 35D mm Approx. 2.44"W × 7.72"H × 1.38"D
Mass	Approx. 230g (8.1 oz.)	Approx. 410g (14.5 oz.)	Approx. 500g (17.6 oz.)
Accessories	Instruction manual (Japanese/ English, Chinese) × 1		

CT6590 (SENSOR UNIT) specifications

*1: Derating according to frequency

Power supply	Two LR06 alkaline batteries, optional AC adapter, or 5 V to 15 VDC external power
Rated power supply voltage	When using batteries: DC 1.5 V × 2 When using AC adapter or external DC power supply: DC 5 V to 15 V
Continuous operating time (Battery)	Approx. 25 hours (23°C, continuous use while connected to CT9691 to CT9693)
Output Impedance	50Ω
POWER LED display	LED green: Power on ; LED red: Low battery (when using battery power)
Cable length	1m (3.3ft)
Dimensions/ Mass	Approx. 36W × 120H × 34D mm (excluding protrudingparts) / Approx. 165g (including batteries)
Accessories	LR06 alkaline batteries × 2, Instruction manuals (Japanese/English/Chinese) one each, Connector cover × 1

Options

AC ADAPTER 9445-02 (universal 100 to 240VAC , 9V/1A output/for UL type) AC ADAPTER 9445-03 (universal 100 to 240VAC , 9V/1A output/for EU type)

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