ΗΙΟΚΙ

SENSOR UNIT CT9555, CT9556, CT9557

Aggregate and measure large currents in multi-cable circuits



The CT9557's total output function adds current waveforms from up to four input channels, converting them into a 2 V f.s. waveform for output. The device, which can generate either total waveform output or total RMS output, makes it possible to measure equipment such as high-capacity solar power conditioners and inverters, even in installations where issues with ratings and cable diameters made measurement impossible in the past.

Measuring large currents and multi-cable circuits with sum functionality



Power Analyzer PW6001, PW3390, etc

Once a current sensor has been attached to each branch cable, the CT9557 adds the sensor signals together to create a total signal. Since the device can treat multiple sensors as a single sensor, as illustrated in the figure above, the current can be

Using a data logger to perform high-precision current measurement



In this setup, waveform output is monitored on the DC current side, and RMS output is monitored on the AC current side of the circuit. Even a logger that lacks RMS conversion functionality can be used to measure AC current. A wireless logger can also be used.

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Compatible products

AC/DC CURRENT SENSOR (pass-through type)				
CT6862-05	50 A AC/DC	φ24 mm	DC to 1 MHz	
CT6863-05	200 A AC/DC	φ24 mm	DC to 500 kHz	
CT6904	500 A AC/DC	φ32 mm	DC to 4 MHz	
CT6875	500 A AC/DC	ф36 mm	DC to 2 MHz	
CT6876	1000 A AC/DC	ф36 mm	DC to 1.5 MHz	
CT6877	2000 A AC/DC	ф80 mm	DC to 1 MHz	
AC/DC CURRENT PROBE (clamp-on type)				
CT6841-05	20 A AC/DC	ф20 mm	DC to 1 MHz	
CT6843-05	200 A AC/DC	ф20 mm	DC to 500 kHz	
CT6844-05	500 A AC/DC	ф20 mm	DC to 200 kHz	
CT6845-05	500 A AC/DC	φ50 mm	DC to 100 kHz	
CT6846-05	1000 A AC/DC	φ50 mm	DC to 20 kHz	
AC/DC CURRENT BOX (direct-connect type)				
PW9100-03, -04	50 A AC/DC Terminal blo	ock (M6 screws)	DC to 3.5 MHz	

The CT9555 series with CT9900 can also be used as a replacement for Hioki's legacy 9555-10

Specifications

Specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)					
Model	SENSOR UNIT CT9557		SENSOR UNIT CT9556		SENSOR UNIT CT9555
Model No. (Order Code)	CT9557		CT9556		CT9555
	Waveform output	Total RMS output (BNC terminal)	Waveform output (BNC terminal)	RMS output (BNC terminal)	Waveform output (BNC terminal)
Appearance	Front	Rear	Front		Front
	Sensor inputs (Hioki ME15W female terminal)	Total waveform output (Hioki ME15W female terminal)	Sensor inputs — (Hioki ME15W female	terminal)	Sensor inputs — (Hioki ME15W female terminal)
Connectable current sensors	Current sensors with a Hioki ME15W (male) output connector (CT686x-05, CT687x,CT684x-05, etc.)				
Output voltage	Waveform output/ total waveform output: 2 V f.s. Total RMS output: 2 V DC f.s.		Waveform output: 2 V f.s. RMS output: 2 V DC f.s.		Waveform output: 2 V f.s.
Output resistance	50 Ω				
Operating temperature range	-10 °C to 50 °C (14 °F to 122 °F)				
Product warranty period	3 year				
Power supply	 AC Adapter Z1002 (100 to 240 V AC, 50/60 Hz, maximum rated power when used with sensors: 155 VA) External power supply (10 to 30 V DC; maximum rated power: 60 VA) 		 AC Adapter Z1008 (100 to 240 V AC, 50/60 Hz, maximum rated power when used with sensors: 45 VA) External power supply (10 to 30 V DC; maximum rated power: 15 VA) 		
Response time	0.8 s for both RMS output and total RMS output (when the input value changes as follows: 0% to 90%, 100% to 10%)		Not de		Not defined
Dimensions	116 mm (4.57 in)W \times 67 mm (2.64 in)H \times 132 mm (5.20 in)D mm (excluding protruding parts)		33 mm (1.30 in)W \times 67 mm (2.64 in)H \times 132 mm (5.20 in)D mm (excluding protruding parts)		
Mass	420 g (14.8 oz)	200 g (7.1 oz)			
Accessories	AC Adapter Z1002, power cord, user manual		AC Adapter Z1008, power cord, user manual		

Total waveform output accuracy (CT9557)

Frequen	су	Amplitude accuracy	Phase accuracy	F
DC		±0.06 %rdg. ±0.03 %f.s.	Not defined	
DC ≤f≤	1 kHz	±0.06 %rdg. ±0.03 %f.s.	±0.1 deg.	5 Hz
1 kHz <f≤< td=""><td>10 kHz</td><td>±0.10 %rdg. ±0.03 %f.s.</td><td>±1.0 deg.</td><td>10 Hz</td></f≤<>	10 kHz	±0.10 %rdg. ±0.03 %f.s.	±1.0 deg.	10 Hz
$10 \text{ kHz} < f \le$	100 kHz	±0.20 %rdg. ±0.10 %f.s.		45 Hz
100 kHz $< f \le$	300 kHz	±1.0 %rdg. ±0.20 %f.s.	+(0.1×f kHz) dog	66 Hz
300 kHz < f ≤	700 kHz	±5.0 %rdg. ±0.20 %f.s.	±(0.1X1 K112) deg.	10 kHz
700 kHz < f ≤	1 MHz	±10.0 %rdg. ±0.50 %f.s.		100 kHz

Total RMS output accuracy (CT9557), RMS output accuracy (CT9556)

Frequency	Accuracy
DC	±0.2 %rdg. ±0.1 %f.s.
5 Hz < f ≤ 10 Hz	±0.3 %rdg. ±0.5 %f.s.
10 Hz < f < 45 Hz	±0.2 %rdg. ±0.2 %f.s.
$45 \text{ Hz} \le f \le 66 \text{ Hz}$	±0.2 %rdg. ±0.1 %f.s.
66 Hz < f ≤ 10 kHz	±0.2 %rdg. ±0.2 %f.s.
10 kHz < f ≤ 100 kHz	±0.3 %rdg. ±0.5 %f.s.
100 kHz < f ≤ 300 kHz	±5.0 %rdg. ±0.5 %f.s.
$300 \text{ kHz} < f \le 700 \text{ kHz}$	±7.0 %rdg. ±0.5 %f.s.
$700 \text{ kHz} < f \le 1 \text{ MHz}$	±10.0 %rdg. ±1.0 %f.s.

Options



CONNECTION CABLE CT9904 HIOKI ME15W (12 pin) terminal to ME15W (12 pin) terminal, 1 m (3.28 ft) length (for connecting CT9557 total output to PW6001 or PW3390 only)



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



CONNECTION CORD 9165 Cord has metallic BNC connectors at both ends, use at metallic terminal, 1.5 m (4.92 ft) length



CONVERSION CABLE CT9901 HIOKI ME15W (12 pin) to HIOKI PL23 (10 pin) connector



CONVERSION CABLE CT9900 HIOKI PL23 (10 pin) to HIOKI ME15W (12 pin) connector

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