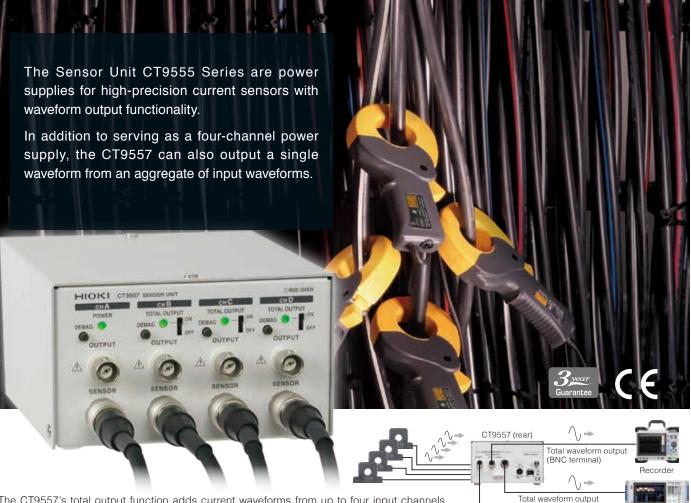
ΗΙΟΚΙ

SENSOR UNIT CT9555, CT9556, CT9557

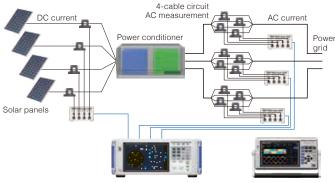
Aggregate and measure large currents in multi-cable circuits



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.

(ME15W terminal) PW6001, PW3390 Total RMS output (BNC terminal) Data logger

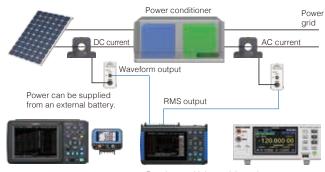
Measuring large currents and multi-cable circuits with sum functionality



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 measured using a single power meter.

Using a data logger to perform high-precision current measurement



Data logger, high-precision voltmeter, etc.

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. If a high-precision voltmeter is used, both the AC and DC currents can be measured with a high degree of precision.



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	ф32 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	φ20 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 b	lock (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

	(Accuracy g	uaranteed for 1 year, F	Post-adjustment ad	ccuracy guaranteed for 1 year)
SENSOR UNIT CT9557		SENSOR UNIT CT9556		SENSOR UNIT CT9555
CT9557		CT9556		CT9555
Waveform output	Total RMS output (BNC terminal) Total waveform output (BNC terminal)	Waveform output (BNC terminal)	RMS output (BNC terminal)	Waveform output (BNC terminal)
Front Sensor inputs	Rear Total waveform output	Front Sensor inputs	0	Front Sensor inputs
(Hioki ME15W female terminal)	(Hioki ME15W female terminal)		,	(Hioki ME15W female terminal)
				her
		RMS output: 2 V DC f.s.		Waveform output: 2 V f.s.
50 Ω				
-10 °C to 50 °C (14 °F to 122 °F)				
3 year				
power when used with sensors: 13 • External power supply	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)			
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		Not defined
		33 mm (1.30 in)W × 67 mm (2.64 in)H × 132 mm (5.20 in)D mm (excluding protruding parts)		
420 g (14.8 oz)	200 g (7.1 oz)			
AC Adapter Z1002, power cord, us	AC Adapter Z1008, power cord, user manual			
	CT9 Waveform output (BNC terminal) Front Sensor inputs (Hioki ME15W female terminal) Current sensors with a Hioki ME15V Waveform output/ total waveform o Total RMS output: 2 V DC f.s. 50 Ω -10 °C to 50 °C (14 °F to 122 °F) 3 year • AC Adapter Z1002 (100 to 240 V power when used with sensors: 18 • External power supply (10 to 30 V DC; maximum rated po 0.8 s for both RMS output and total (when the input value changes as fi 116 mm (4.57 in)W × 67 mm (2.64 i (excluding protruding parts) 420 g (14.8 oz)	SENSOR UNIT CT9557 CT9557 Waveform output (BNC terminal) Total RMS output (BNC terminal) Front Total waveform output (BNC terminal) (BNC terminal) Total waveform output (BNC terminal) Front Total waveform output (BNC terminal) Current sensors with a Hioki ME15W (male) output connector (CT686 Waveform output/ total waveform output: 2 V f.s. Total RMS output: 2 V DC f.s. 50 Ω -10 °C to 50 °C (14 °F to 122 °F) 3 year • 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) 0.8 s for both RMS output and total RMS output (when the input value changes as follows: 0% to 90%, 100% to 10%) 116 mm (4.57 in)W × 67 mm (2.64 in)H × 132 mm (5.20 in)D mm (excluding protruding parts)	SENSOR UNIT CT9557 SENSOR UNIT CT9557 CT9557 CT95 Waveform output CT9557 CT95 Waveform output (Hioki ME15W female terminal) Front Sensor inputs Front Sensor inputs Waveform output (Hioki ME15W female terminal) Front Sensor inputs Waveform output Current sensors with a Hioki ME15W (male) output connector (CT686x-05, CT687x,CT66 Waveform output: 2 V DC f.s. 50 Ω -10 °C to 50 °C (14 °F to 122 °F)	CT9557 CT956 Waveform output (BNC terminal) Total RMS output (BNC terminal) (BNC terminal) Waveform output (BNC terminal) RMS output (BNC terminal) Front Front Sensor inputs (Hioki ME15W female terminal) Front Sensor inputs (Hioki ME15W female terminal) Current sensors with a Hioki ME15W (male) output (Hioki ME15W female terminal) Total waveform output (Hioki ME15W female terminal) Front Sensor inputs (Hioki ME15W female terminal) Current sensors with a Hioki ME15W (male) output connector (CT686x-05, CT687x,CT684x-05, etc.) 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. 50 Ω -10 °C to 50 °C (14 °F to 122 °F) Syear • AC Adapter Z1002 (100 to 240 V AC, 50/60 Hz, maximum rated power when used with sensors: 155 VA) • AC Adapter Z1008 (100 to 240 V rated power supply (10 to 30 V DC; maximum rated power: 60 VA) • AC Adapter Z1008 (100 to 240 V rated power supply (10 to 30 V DC; maximum rated power: 60 VA) 0.8 s for both RMS output and total RMS output (when the input value changes as follows: 0% to 90%, 100% to 10%) 33 mm (1.30 in)W × 67 mm (2.64 in)H (excluding protruding parts) 420 g (14.8 oz) 200 g (7.1 oz)

Total waveform output accuracy (CT9557)

····· · · · · · · · · · · · · · · · ·				Total Timo output a	
Frequency		Amplitude accuracy	Phase accuracy		Frequenc
DC		±0.06 %rdg. ±0.03 %f.s.	Not defined	-	DC
DC ≤ f ≤	1 kHz	±0.06 %rdg. ±0.03 %f.s.	±0.1 deg.	-	5 Hz < f ≤
1 kHz <f≤< td=""><td>10 kHz</td><td>±0.10 %rdg. ±0.03 %f.s.</td><td>±1.0 deg.</td><td></td><td>10 Hz < f <</td></f≤<>	10 kHz	±0.10 %rdg. ±0.03 %f.s.	±1.0 deg.		10 Hz < f <
10 kHz $< f \le$	100 kHz	±0.20 %rdg. ±0.10 %f.s.			45 Hz ≤ f ≤
100 kHz $< f \le$	300 kHz	±1.0 %rdg. ±0.20 %f.s.	±(0.1×f kHz) deg.		66 Hz < f ≤
300 kHz < f ≤	700 kHz	±5.0 %rdg. ±0.20 %f.s.	±(0.1X1 K112) deg.		10 kHz < f ≤
700 kHz $< f \le$	1 MHz	±10.0 %rdg. ±0.50 %f.s.			100 kHz < f ≤

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.
$10 \text{ kHz} < f \le 100 \text{ kHz}$	±0.3 %rdg. ±0.5 %f.s.
100 kHz < f ≤ 300 kHz	±5.0 %rdg. ±0.5 %f.s.
300 kHz < f ≤ 700 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)



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

DISTRIBUTED BY



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

Note: Company names and product names appearing in this catalog are trademarks or registered trademarks of various companies



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

HIOKI E.E. CORPORATION

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regional contact information