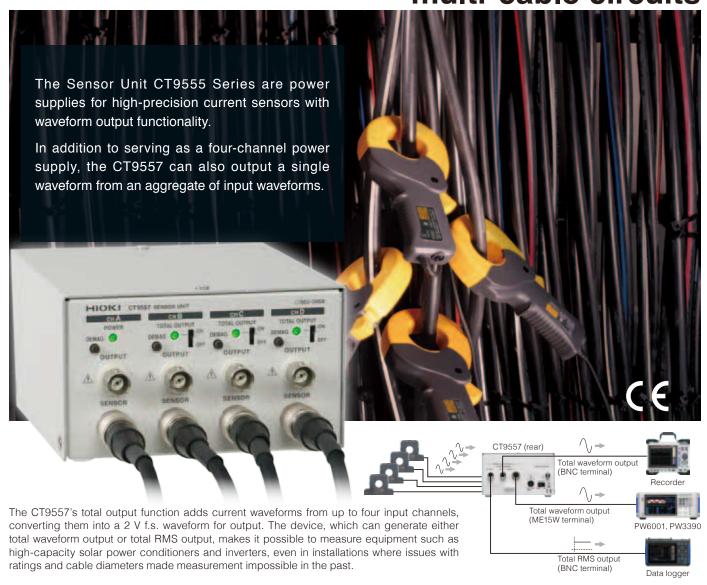




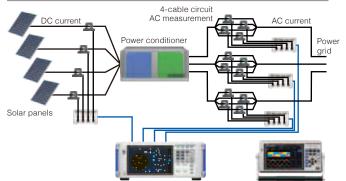
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Aggregate and measure large currents in multi-cable circuits



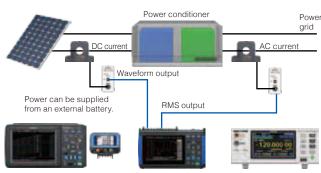
Measuring large currents and multi-cable circuits with sum functionality



Power Analyzer PW6001, PW3390, etc.

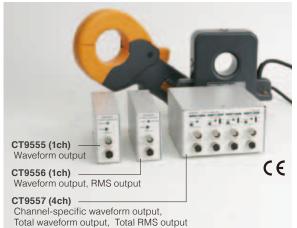
Once a current sensor has been attached to each branch cable. the CT9557 adds the sensor signals together to create a total signal. Since the device can treat multiple sensors as a single sensor, as illustrated in the figure above, the current can be measured using a single power meter.

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.



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

Compatible products

AC/DC CURRENT SENSOR (pass-through type)

CT6862-05	50 A AC/DC	ф24 mm	DC to 1 MHz
CT6863-05	200 A AC/DC	ф24 mm	DC to 500 kHz
9709-05	500 A AC/DC	ф36 mm	DC to 100 kHz
CT6865-05	1000 A AC/DC	ф36 mm	DC to 20 kHz

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	ф50 mm	DC to 100 kHz
CT6846-05	1000 A AC/DC	ф50 mm	DC to 20 kHz

AC/DC CURRENT BOX (direct-connect type)

PW9100-03, -04 50 A AC/DC Terminal block (M6 screws) DC to 3.5 MHz

Specifications

(Accuracy guaranteed for 1 y	ear, Post-adjustment accuracy	guaranteed for 1 year)
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Model	CENCODI	. , , ,			SENSOR UNIT CT9555
- 111	SENSOR UNIT CT9557		SENSOR UNIT CT9556		
Model No. (Order Code)	CTS	9557	CT9	556	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)
Appearance	Front	Rear	Front	# P	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 ME15	5W (male) output connector (CT686	x-05, 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	1 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 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)

Frequency		Amplitude accuracy	Phase accuracy	
DC		±0.06 %rdg. ±0.03 %f.s.	Not defined	
DC ≤f≤	1 kHz	±0.06 %rdg. ±0.03 %f.s.	±0.1 deg.	
1 kHz < f ≤	10 kHz	±0.10 %rdg. ±0.03 %f.s.	±1.0 deg.	
10 kHz < f ≤	100 kHz	±0.20 %rdg. ±0.10 %f.s.		
100 kHz < f ≤	300 kHz	±1.0 %rdg. ±0.20 %f.s.	±(0.1×f kHz) deg.	
300 kHz < f ≤	700 kHz	±5.0 %rdg. ±0.20 %f.s.		
700 kHz < f ≤	1 MHz	±10.0 %rdg. ±0.50 %f.s.		

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 Hz ≤ f ≤ 66 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.
$100 \text{ kHz} < f \le 300 \text{ kHz}$	±5.0 %rdg. ±0.5 %f.s.
300 kHz < f ≤ 700 kHz	±7.0 %rdg. ±0.5 %f.s.
700 kHz < f ≤ 1 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



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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