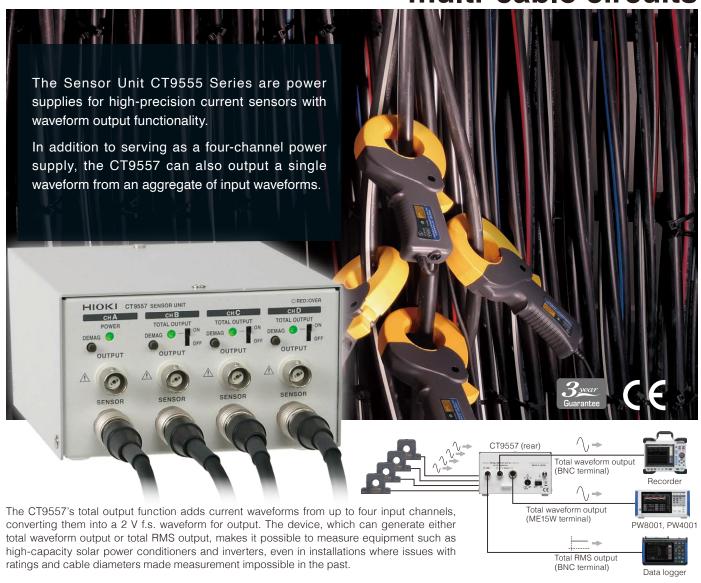
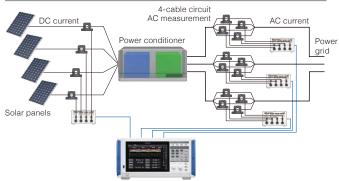


Aggregate and measure large currents in multi-cable circuits



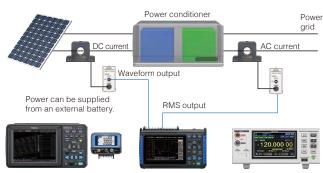
Measuring large currents and multi-cable circuits with sum functionality



Power Analyzer PW8001, PW4001, 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) AC/DC CURRENT PROBE (clamp-on type) AC/DC CURRENT BOX (direct-connect type)

For details on supported products, please refer to the following product pages.

CT9555	CT9556	CT9557

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				
SENSOR UNIT CT9557	SENSOR UNIT CT9556	SENSOR UNIT CT9555		
CT9557	CT9556	CT9555		
Waveform output Total RMS output (BNC terminal) Total waveform output (BNC terminal) Total waveform output (BNC terminal)	Waveform output RMS output (BNC terminal) (BNC terminal)	Waveform output (BNC terminal)		
Front Pront Rear	Front	Front		
Sensor inputs Total waveform output (Hioki ME15W female terminal) (Hioki ME15W female terminal)	Sensor inputs — (Hioki ME15W female terminal)	Sensor inputs — (Hioki ME15W female terminal)		
Current sensors with a Hioki ME15W (male) output connector (CT686x-05, CT687x,CT684x-05, etc.)				
Waveform output/ total waveform output: 2 V f.s. Total RMS output: 2 V DC f.s. Waveform output (4CH), total waveform output and total RMS output can be used simultaneously	Waveform output: 2 V f.s. RMS output: 2 V DC f.s. • Waveform output and RMS output can be used simultaneously	Waveform output: 2 V 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)	sors: 45 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 defined			
116 mm (4.57 in)W \times 67 mm (2.64 in)H \times 132 mm (5.20 in)D mm (excluding protruding parts)	× 132 mm (5.20 in)D mm			
420 g (14.8 oz)				
AC Adapter Z1002, power cord, user manual AC Adapter Z1008, power cord, user manual				
	SENSOR UNIT CT9557 CT9557 Waveform output (BNC terminal) Front (BNC terminal) Sensor inputs (Hioki ME15W female 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. Waveform output/ total waveform output: 2 V f.s. Total RMS output: 2 V DC f.s. Waveform output (4CH), total waveform output and total RMS output can be used simultaneously 50 \text{0} -10 \circ C to 50 \circ C (14 \circ F to 122 \circ 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 x 67 mm (2.64 in)H x 132 mm (5.20 in)D mm (excluding protruding parts) 420 g (14.8 oz)	SENSOR UNIT CT9557 CT9556 Waveform output (BNC terminal) (Hioki ME15W female terminal) (Hioki ME15W female terminal) (Flowing the sensence of the		

Total waveform output accuracy (CT9557)

Frequen	су	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.	±(0.1x1 kHz) deg.
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 kHz < f ≤ 300 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 L9217
HIOKI ME15W (12 pin) terminal to ME15W (12 pin) terminal, 1 m (3.28 ft) connectors at both ends, length (for connecting CT9557 total output to PW8001/ PW4001/ PW6001/ PW3390 only)



CONNECTION CORD

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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