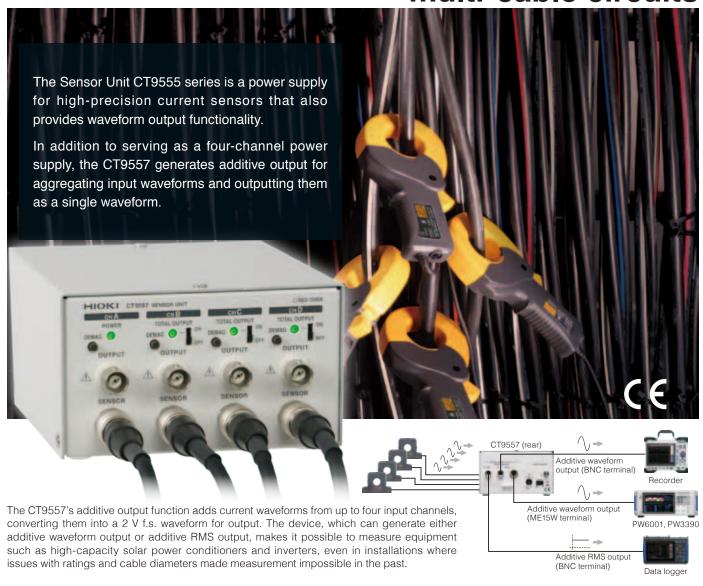
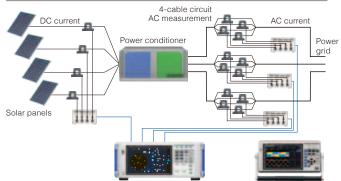


**NEW** 

# Aggregate and measure large currents in multi-cable circuits



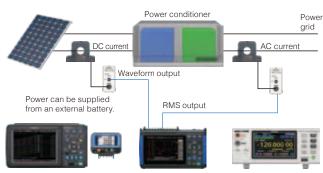
# Measuring large currents and multi-cable circuits with additive functionality



Power Analyzer PW6001, PW3390, etc.

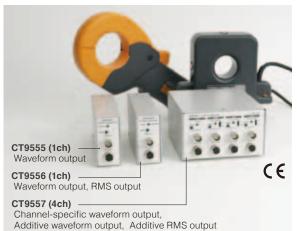
Once a current sensor has been attached to each branch cable, the CT9557 adds the sensor signals together to create an additive signal. Since the device can treat multiple sensors as a single sensor, as illustrated in the figure above, the current can be measured using a single power meter.

## 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	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

## The CT9555 series can also be used as a replacement for Hioki's previous 9555-10.

Specifications

Specifications		(Accuracy gu	uaranteed for 1 year,	Post-adjustment ad	ccuracy guaranteed for 1 year)
Model	SENSOR UNIT CT9557		SENSOR UNIT CT9556		SENSOR UNIT CT9555
Model No. (Order Code)	CT9557		CT9556		CT9555
Appearance	Waveform output (BNC terminal)  Front  Sensor inputs (Hioki ME15W female terminal)	Additive RMS output (BNC terminal) Additive waveform output (BNC terminal) Rear Additive waveform output (Hioki ME15W female terminal)	Waveform output (BNC terminal)  Front  Sensor inputs  (Hioki ME15W female	RMS output (BNC terminal)	Waveform output (BNC terminal)  Front  Sensor inputs — (Hloki ME15W female terminal)
Connectable current sensors	Current sensors with a Hioki ME15W (male) output connector (CT686x-05, CT684x-05, etc.)				
Output voltage			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 additive RMS output (when the input value changes as follows: 0% to 90%, 100% to 10%)				-

#### Additive waveform output accuracy (CT9557)

Frequen	су	Amplitude accuracy	Phase accuracy	
DC		±0.06 %rdg. ±0.03 %f.s.	-	
$DC \le f \le$	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 vf kH=) dog	
300 kHz < f ≤	700 kHz	±5.0 %rdg. ±0.20 %f.s.	±(0.1×f kHz) deg.	
700 kHz < f ≤	1 MHz	±10.0 %rdg. ±0.50 %f.s.		

420 g (14.8 oz)

(excluding protruding parts)

AC Adapter Z1002, power cord, user manual

#### AC Adapter Z1008, power cord, user manual Additive RMS output accuracy (CT9557), RMS output accuracy (CT9556)

(excluding protruding parts)

200 g (7.1 oz)

33 mm (1.30 in)W × 67 mm (2.64 in)H × 132 mm (5.20 in)D mm

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 %rda, ±1.0 %f.s.

#### **Options**

Dimensions

Accessories

Mass



#### **CONNECTION CABLE**

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



#### **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

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

#### **HEADQUARTERS**

B1 Koizumi, Ueda, Nagano, 386-1192, Japan TEL +81-268-28-0562 FAX +81-268-28-0568 http://www.hioki.com/E-mail: os-com@hioki.co.jp

## HIOKI (Shanghai) SALES & TRADING CO., LTD. TEL +86-21-63910090 FAX +86-21-63910360

http://www.hioki.cn / E-mail: info@hioki.com.cn

116 mm (4.57 in)W  $\times$  67 mm (2.64 in)H  $\times$  132 mm (5.20 in)D mm

HIOKI SINGAPORE PTE. LTD. TEL +65-6634-7677 FAX +65-6634-7477 E-mail: info-sg@hioki.com.sg

HIOKI KOREA CO., LTD. TEL +82-2-2183-8847 FAX +82-2-2183-3360 E-mail: info-kr@hioki.co.jp

HIOKI USA CORPORATION
TEL +1-609-409-9109 FAX +1-609-409-9108
http://www.hiokiusa.com / E-mail: hioki@hiokiusa.com

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