

AC/DC CURRENT SENSOR CT7000 Series DISPLAY UNIT CM7290

NEW



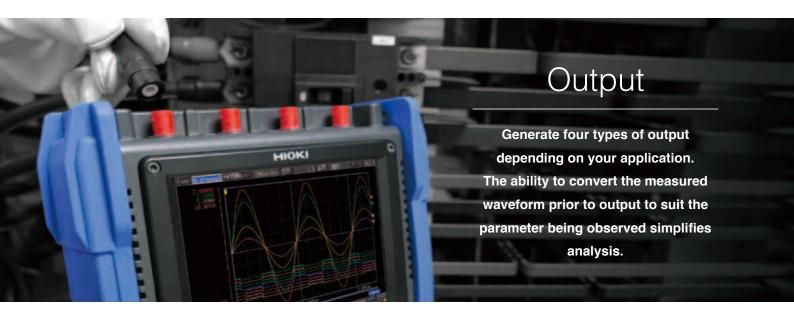












Extensive selection of sensors for new current measurement possibilities



CT7742	CT7736	CT7731
2000 A	600 A	100 A
ø55 mm (2.17 in)	ø33 mm (1.3 in)	ø33 mm (1.3 in)



CT7642	CT7636	CT7631
2000 A	600 A	100 A
ø55 mm (2.17 in)	ø33 mm (1.3 in)	ø33 mm (1.3 in)

AC/DC AUTO-ZERO CURRENT SENSOR

Frequency band: DC to 5 kHz



Perform measurement without shifts in the zero-point, even during extended waveform recording or in locations where the temperature varies during measurement.

AC/DC CURRENT SENSOR

Frequency band: DC to 10 kHz (Standard sensor)



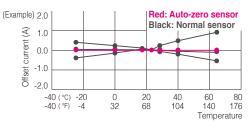
Use to observe instantaneous waveforms and make shortterm measurement in locations without temperature variations.

AC/DC auto-zero current sensors

Take measurements without shifts in the zero-point, even during extended recording with temperature variations







Normal sensor

New auto-zero sensor

Because measured values acquired using standard sensors exhibit shifts in the zero-point caused by temperature variations, their use in recording data over extended periods of time has required regular zero-adjustment. This issue is caused by the effects of the Hall elements used in the sensor's detection circuitry. Hioki's new auto-zero sensors feature a new, switching-based offset cancellation circuit that was developed to address this issue. This circuit minimizes shifts in the zero-point to enable extended recording without constant zero-adjustment.

Identify signal levels in the field Intuitive output settings



Automatic sensor detection and configuration

When a sensor is connected to the connector, the display unit detects it and automatically sets the sensor type.



Efficiency in the field

The separate, backlit display is easy to read, and a magnetic strap frees up both hands to perform other work.



Retention of measurement settings

The same settings will remain in effect when the unit is turned on next, streamlining work by allowing measurement to be started immediately.



Convenient support for external power supplies for easy embedding

When power is supplied to the AC adapter, the unit is automatically supplied power so that it can start measurement immediately.





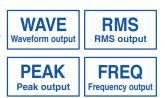
Battery power for convenient testing

The unit can be used with two AA alkaline batteries. This cord-free mode of operation delivers outstanding ease of use in the field.



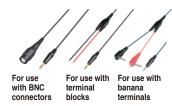
Dual-value display for at-a-glance confirmation

The unit displays the frequency and output rate along with the measured value, simplifying the process of setting the rate when outputting measurement data.



Single-button selection of output format

The unit can generate four types of output for data loggers and Memory HiCorders. The format can be switched with a single button.



Simple output connectivity

Three output cords are available for use depending on the application, making it easy to connect the unit to a data logger or Memory HiCorder.



Analysis display with maximum, minimum, and average values

When the analysis display is activated, the unit displays the maximum, minimum, and average values as well as the maximum and minimum crest values since the start of measurement.

Four types of application-specific output for Memory HiCorders and data loggers



WAVE: Waveform output

Output the waveform without modification.

RMS: RMS output

Convert input for output as a series of RMS values.

FAST: 45 Hz or greater NORMAL: 10 Hz or greater SLOW: 3 Hz or greater

PEAK: Peak output

Sample the waveform at the rate of 2 kS/s and output the peak value for each interval as an absolute value.

Refresh intervals

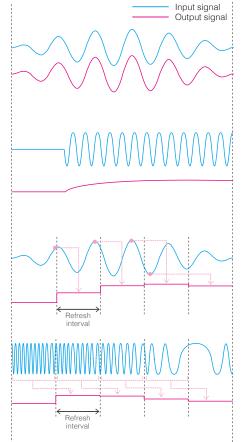
NORMAL: 5 updates per sec. (0.02 sec.) NORMAL: 5 updates per sec. (0.2 sec.) SLOW: 1 update every sec. (1 sec.)

FREQ: Frequency output

Count the frequency and output it for each interval.

Refresh intervals

FAST: 5 updates per sec. (0.2 sec.) NORMAL: 5 updates per sec. (0.2 sec.) SLOW: 1 update every 3 sec.





Record the amount of current generated by solar panels in 1 week

Example devices used

- Display Unit CM7290
 AC/DC Auto-zero Current Sensor CT7731
 Output Cord L9095
- Memory HiCorder MR8870



Record and monitor RMS current values at a manufacturing plant

- Display Unit CM7290 AC/DC Auto-zero Current Sensor CT7742 Output Cord L9095
- Memory HiCorder MR8880



Measure and monitor the maximum power supply rating for a piece of equipment

Example devices used

- Display Unit CM7290 AC/DC Auto-zero Current Sensor CT7736
- Output Cord L9096
- Memory HiLogger LR8431



Check the frequency of a compressor and motor

Example devices used

- Display Unit CM7290 AC/DC Current Sensor CT7631
- Output Cord L9096
- Memory HiLogger LR8431

Display Unit Specifications CM7290 (Guaranteed accuracy period: 3 years; post-adjustment guaranteed accuracy period: 3 years)

Input/output and measurement specifications

Measured parameters	DC, AC, DC+AC, frequency (Hz)
Measurement method	True RMS measurement
Output methods	WAVE, RMS, PEAK, Hz
Output impedance	50 Ω (±5%)
Input connector	HIOKI PL14
Display refresh times	FAST: 0.2 sec. / NORMAL: 0.2 sec. / SLOW: 1.0 sec. (when using the Hz output method, SLOW: 3 sec.)
Output refresh times	PEAKFAST: 0.02 sec. / NORMAL: 0.2 sec. / SLOW: 1 sec. FREQFAST: 0.2 sec. / NORMAL: 0.2 sec. / SLOW: 3.0 sec. (WAVE and RMS use analog output.)
Peak detection interval	2 ms or greater (with PEAK MAX, PEAK MIN, or PEAK output)
Zero display range	29 count or less for AC and DC+AC RMS values
Crest factor	3 at 5000 count or 2.5 at 6000 count for AC and AC+DC
Typical accuracy (display)	DC: ±0.3% rdg. ±8 dgt. / AC: ±0.3% rdg. ±8 dgt. (RMS) / DC+AC: ±0.3% rdg. ±12 dgt. (RMS) / Frequency: ±0.1% rdg. ±0.01 Hz
Typical accuracy (output)	DC: ±0.5% rdg. ±0.8 mV / Current: ±0.5% rdg. ±0.8 mV / DC+AC: ±0.5% rdg. ±1.2 mV / Frequency: ±0.3% rdg. ±2.2 mV

General specifications

Operating and storage temperature and humidity range	-25 °C to 65 °C (-13 °F to 149 °F) , 80% RH (non-condensing, with batteries removed)
Dust and water resistance	IP54 (with sensor connected and caps fitted to AC adapter and power connector)
Standard compliance	Safety: EN61010 EMC: EN61326, EN61000
Power supply	AA alkaline battery (LR6) × 2 / 5 V to 15 V external power supply
Maximum rated output	2.5 VA
Continuous operating time	Max. approx. 16 hours (with backlight off using WAVE or RMS output and CT7631, CT7636, or CT7642 sensor)
External dimensions and mass	Approx. 52 mm (2 in) W × 163 mm (6.4 in) H × 37 mm (1.5 in) D, approx. 220 g (7.76 oz)(with protector and batteries)
Accessories	AA alkaline battery (LR6) × 2, protector (attach to unit), instruction manual

Functions

Auto-range function	Automatic configuration of optimal range (can also be set manually)
Zero-adjustment at power-on	Automatic zero-adjustment when powered on
Analysis display	Display of maximum, minimum, and average values as well as maximum and minimum crest values since activation of analysis display
Filter	180 Hz low-pass filter, on/off pass band setting
Output amplification	Output at ×10 normal level

Display value hold function	YES
Backlight	YES
Auto-power off	YES
Configuration save function	YES
Key lock function	YES

Sensor specifications CT7600, CT7700 series (Guaranteed accuracy period: 3 years; post-adjustment guaranteed accuracy period: 3 years)

Input/output and measurement specifications

	CT7631/CT7731	CT7636/CT7736	CT7642/CT7742			
Frequency band	CT7631, CT7636, CT76	542: DC to 10 kHz (-3 dB) / CT7731, CT7736, CT7	742 : DC to 5 kHz (-3 dB)			
Rated measurement curre	nt 100 A AC/DC	600 A AC/DC	2000 A AC/DC			
Output rate	1 n	nV/A	0.1 mV/A			
Measurable conductor diamet	er ø33 mm (1	.3 in) or less	ø55 (2.17 in) mm or less			
Ranges*1	100.0 A / 60.00 A	600.0 A / 60.00 A	2000 A / 600.0 A			
Output connector		HIOKI PL14				
Maximum Frequenci derating current	y 120	700	W 2500			
Peak valu	e 150 A peak	900 A peak	2840 A peak			
Sampling frequency		36.5 kHz ±0.2 Hz (CT7731, CT7736, CT7742)				
Output resistance		150 Ω or less				
Typical accuracy (continuous input)	±1.0% rdg. ±0.5% f.s. (DC, 45 to 66 Hz) ±2.0% rdg. ±0.5% f.s. (66 Hz to 500 Hz)	±2.0% rdg. ±0.5% f.s. (DC, 45 to 66 Hz) ±3.0% rdg. ±0.5% f.s. (66 Hz to 1 kHz)	±1.5% rdg. ±0.5% f.s. (DC, 45 to 66 Hz) ±2.5% rdg. ±1.0% f.s. (66 Hz to 1 kHz)			
Typical accuracy (phase	±1.8 deg. (up to 66 Hz)	±1.8 deg. (up to 66 Hz)	±2.3 deg. (up to 66 Hz)			
		·	+4 M/h			

General specifications

*1: When used with CM7290

	CT7631/CT7731	CT7636/CT7736	CT7642/CT7742			
Operating and storage temperature and humidity range	-25°C	to 65°C (-13 °F to 149 °F) , 80% RH (non-conde	nsing)			
Dust and water resistance	IP40 Jaws and barriers: IP50 / Grip: IP54 (when measuring insulated conductors only) (Do not use when wet.)					
Standard compliance		Safety: EN61010 EMC: EN61326				
Maximum rated input-to- ground voltage ²	600 V AC/DC (CAT IV)	1000 V AC/DC (CAT III)	/ 600 V AC/DC (CAT IV)			
External dimensions and mass's	Approx. 58 mm (2.3 in) W \times 132 mm (5.2 in) H \times 18 mm (0.7 in) D approx. 250 g (8.8 oz)	Approx. 64 mm (2.5 in) W x 160 mm (6.3 in) H x 34 mm (1.3 in) D Approx. 64 mm (2.5 in) W x 95 mm (7.7 in) H x 34 mm (1.3 in) D approx. 510 g (18 oz)				
Jaw dimensions	Approx. 66 mm (2.6 in) W × 13 mm (0.5 in) D	Approx. 69 mm (2.7 in) W × 14 mm (0.6 in) D Approx. 92 mm (3.6 in) W × 18 mm (0.7 in) D				
Cable length	Approx. 2.5 m (8.2 ft) (extensible to max	. of 100 m (328 ft) with optional products; subject	to limits imposed by connected device)			

CM7290 + CT7631/CT7731

(AC: $45 \text{ Hz} \le f \le 66 \text{ Hz}$)

Danna	Aı	mplitude [[A]	DC output		AC output	
Range	WAVE	RMS	PEAK	WAVE	WAVE	RMS	PEAK
60.00 A	<i>l</i> ≤ 60	3 ≤ 1 ≤ 60		±1.5% rdg. ±5.8 mV	±1.5% rdg. ±5.8 mV, ±2.0 deg.	±1.8% rdg. ±5.8 mV	±3.5% rdg. ±27.0 mV
100.0 A	1 ≤ 80	30 ≤ <i>l</i> ≤ 100	<i>Ipeak</i> ≤ 150	1 F9/ rdg 11 2 m)/	±1.5% rdg. ±1.3 mV, ±2.0 deg	.100/ rdg .12 m)/	13 F9/ rdg 10 0 m)/
100.0 A	80 ≤ 1 ≤ 100 30 ≤ 1 ≤ 1			±1.5% rdg. ±1.3 mV	±1.5% rdg. ±1.5 mV, ±2.0 deg	±1.8% rdg. ±1.3 mV	±3.5% rdg. ±9.0 mV

	۸.	malituda [A1	AC + DC output						
Range	ge Amplitude [A]		Aj	WAVE		RMS		PEAK		
	WAVE RMS PEAK		DC	AC	DC	AC	DC	AC		
60.00 A	<i>l</i> ≤ 60	3 ≤ 1 ≤ 60		±2.5% rdg. ±6.2 mV	±1.5% rdg. ±6.2 mV, ±2.0 deg	±2.7% rdg. ±6.2 mV	±1.8% rdg. ±6.2 mV	±3.5% rdg. ±27.0 mV	±3.5% rdg. ±27.0 mV	
100.0 A	1 ≤ 80	30 ≤ / ≤ 100	<i>Ipeak</i> ≤ 150	±2.5% rdg. ±1.7 mV	±1.5% rda ±1.7 mV ±2.0 daa	+2.7% rda +1.7 mV	±1.8% rda ±1.7 mV	+3.5% rda +0.0 mV	+3.5% rdg +0.0 mV	
100.0 A	80 ≤ / ≤ 100	00 2 1 2 100		±2.5 /6 lug. ±1.7 lllV	±1.5/6149. ±1.7 111V, ±2.0 469	±2.1 /0 lug. ±1.7 lllv	± 1.0 /6 lug. ± 1.7 lllv	±3.5 % rug. ±9.0 mv	1 ±3.3 % rug. ±3.0 miv	

		molitud	. [] .	Display						
Range	Amplitude [A]		F [A]	DC mode	AC mode	AC+DC mode		AC peak mode		
	DC	DC AC/AC+DC PEAK		DC	AC	DC	AC	AC		
60.00 A	/≤60	3 ≤ / ≤ 60	<i>Ipeak</i> ≤ 110	±1.3% rdg. ±0.58 A	±1.3% rdg. ±0.58 A	±2.5% rdg. ±0.57 A	±1.3% rdg. ±0.62 A	±3.5% rdg. ±2.7 A		
60.00 A	1 5 00	1 ≤ 60 3 ≤ 1 ≤ 60 110 < lpeak ≤ 15		±1.5 % Tug. ±0.56 A	±1.5 % Tug. ±0.56 A	±2.5 % Tug. ±0.57 A	±1.5% rug. ±0.02 A	±3.5 % Tug. ±2.7 A		
100.0 A	1 ≤ 80	30 ≤ 1 ≤ 80	_	±1.3% rdg. ±1.3 A	±1.3% rdg. ±1.3 A	±2.5% rdg. ±2.0 A	±1.3% rdg. ±1.7 A	12 59/ rdg 12 7 A		
100.0 A	80 ≤ / ≤ 100	100 80 < /≤ 100		±1.5% lug. ±1.5 A	±1.3% fdg. ±1.3 A	±2.5% rag. ±2.0 A	±1.3% rug. ±1.7 A	±3.5% rdg. ±2.7 A		

CM7290 + CT7636/CT7736

(AC: 45 Hz \leq f \leq 66 Hz)

Danga	Amplitude [A]			DC output	AC output			
Range	WAVE	RMS	PEAK	WAVE	WAVE	RMS	PEAK	
60.00 A	1 ≤ 60	3 ≤ 1 ≤ 60	<i>lpeak</i> ≤ 150	±2.5% rdg. ±30.8 mV	±2.5% rdg. ±30.8 mV, ±2.0 deg	±2.8% rdg. ±30.8 mV	±4.5% rdg. ±49.0 mV	
COO O A	1 < 000	20 - 1 - 000		. 0.00/	±4.5% rdg. ±11.2 mV			
600.0 A	600.0 A 1≤600 30≤1≤6)≤/≤600		±2.5% rdg. ±3.8 mV, ±2.0 deg	±2.8% rdg. ±3.8 mV	±6.5% rdg. ±11.2 mV	

		Amalita	udo [A]	AC+DC output						
Range	Amplitude [A]			WA	WE	RMS		PEAK		
	WAVE	RMS	PEAK	DC	AC	DC	AC	DC	AC	
60.00 A	1≤60	3 ≤ 1 ≤ 60	<i>Ipeak</i> ≤ 150	±3.5% rdg. ±31.2 mV	±2.5% rdg. ±31.2 mV, ±2.0 deg	±3.7% rdg. ±31.2 mV	±2.8% rdg. ±31.2 mV	±4.5% rdg. ±49.0 mV	±4.5% rdg. ±49.0 mV	
600.0.4	600.0 A /≤600 3		<i>Ipeak</i> ≤ 600	±3.5% rdg. ±4.2 mV	±2.5% rdg. ±4.2 mV, ±2.0 deg	±3.7% rdg. ±4.2 mV	±2.8% rdg. ±4.2 mV	±4.5% rdg. ±11.2 mV	±4.5% rdg. ±11.2 mV	
600.0 A	1 5 000	20 2 1 2 000	600 < <i>Ipeak</i> ≤ 900	±3.5% rug. ±4.2 mv	±2.5% rug. ±4.2 mv, ±2.0 deg	±3.7% Tug. ±4.2111V	±2.0% Tug. ±4.2111V	±6.5% rdg. ±11.2 mV	±6.5% rdg. ±11.2 mV	

		Amalitu	ido [A]	Display					
Range	Amplitude [A]			DC mode	DC mode AC mode AC-		mode	AC peak mode	
	DC	AC/AC+DC	PEAK	DC	AC	DC	AC	AC	
60.00 A	1 ≤ 60	3 ≤ 1 ≤ 60	<i>Ipeak</i> ≤ 150	±2.3% rdg. ±3.08 A	±2.3% rdg. ±3.08 A	±3.5% rdg. ±3.07 A	±2.3% rdg. ±3.12 A	±4.5% rdg. ±4.9 A	
600.0 A	1 < 600	0 30 ≤ / ≤ 600	$0 \frac{ peak \le 600}{600 < peak \le 900}$	00 ±2.3% rdg. ±3.8 A ±2.3% rdg. ±3.8 A	±3.5% rdg. ±4.5 A	±2.3% rdg. ±4.2 A	±4.5% rdg. ±5 A		
600.0 A	1 2 000			±2.5 % lug. ±5.6 A	±2.5 % lug. ±3.6 A	±3.5 % Tug. ±4.5 A	±2.5 % Tug. ±4.2 A	±6.5% rdg. ±5 A	

CM7290 + CT7642/CT7742

(AC: $45 \text{ Hz} \le f \le 66 \text{ Hz}$)

Dongo	Amplitude [A]			DC output	AC output				
Range	WAVE	RMS	PEAK	WAVE	WAVE	RMS	PEAK		
600.0 A	<i>l</i> ≤ 600	30 ≤ / ≤ 600	<i>Ipeak</i> ≤ 1500	±2.0% rdg. ±10.8 mV	±2.0% rdg. ±10.8 mV, ±2.5 deg	±2.3% rdg. ±10.8 mV	±4.0% rdg. ±27.0 mV		
0000 4	<i>l</i> ≤ 1800	300 ≤ / ≤ 1800	<i>Ipeak</i> ≤ 2300	±2.0% rdg. ±1.8 mV	±2.0% rdg. ±1.8 mV, ±2.5 deg	±2.3% rdg. ±1.8 mV	±4.0% rdg. ±9.0 mV		
2000 A	1800 < /≤ 2000	1800 < /≤ 2000	2300 < lpeak ≤ 2840	±2.0% rdg. ±1.8 mV	±2.5% rdg. ±1.8 mV, ±2.5 deg	±2.8% rdg. ±1.8 mV	±8.5% rdg. ±10.0 mV		

Range	Amplitude [A]			AC+DC output						
				WA	WAVE		RMS		PEAK	
	WAVE	RMS	PEAK	DC	AC	DC	AC	DC	AC	
600.0 A	1 ≤ 600	30 ≤ / ≤ 600	<i>Ipeak</i> ≤ 1500	±3.0% rdg. ±11.2 mV	±2.0% rdg. ±11.2 mV, ±2.5 deg	±3.2% rdg. ±11.2 mV	±2.3% rdg. ±11.2 mV	±4.0% rdg. ±27.0 mV	±4.0% rdg. ±27.0 mV	
0000 4	<i>l</i> ≤ 1800	300 ≤ / ≤ 1800	<i>Ipeak</i> ≤ 2300	±3.0% rdg. ±2.2 mV	±2.0% rdg. ±2.2 mV, ±2.5 deg	±3.2% rdg. ±2.2 mV	±2.3% rdg. ±2.2 mV	±4.0% rdg. ±9.0 mV	±4.0% rdg. ±9.0 mV	
2000 A	1800 < /≤ 2000	1800 < / ≤ 2000	2300 < loeald < 2840	±3.0% rdg. ±2.2 mV	±2.5% rdg. ±2.2 mV, ±2.5 deg	±3.2% rdg. ±2.2 mV	±2.8% rdg. ±2.2 mV	±8.5% rdg. ±9.0 mV	±8.5% rdg. ±10.0 mV	

	Α.	malituda [A1	Display					
Range	Amplitude [A]			DC mode	AC mode	AC+DC mode		AC peak mode	
	DC	AC / AC+DC	PEAK	DC	AC	DC	AC	AC	
600.0 A	<i>l</i> ≤ 600	30 ≤ / ≤ 600	<i>Ipeak</i> ≤ 1500	±1.8% rdg. ±10.8 A	±1.8% rdg. ±10.8 A	±3.0% rdg. ±10.7 A	±1.8% rdg. ±11.2 A	±4.0% rdg. ±27 A	
2000 A			<i>Ipeak</i> ≤ 2300		±1.8% rdg. ±18 A	±3.0% rdg. ±25 A	±1.8% rdg. ±22 A	±4.0% rdg. ±27 A	
	1800 < 1 ≤ 2000	1800 < 1 ≤ 2000	2300 < /peak ≤2840	±1.8% rdg. ±18 A	±2.3% rdg. ±18 A	±3.0% rdg. ±25 A	±2.3% rdg. ±22 A	±8.5% rdg. ±27 A	

Accuracy specifications conditions and effects

	Both display unit and sensors							
Accuracy guarantee conditions Guaranteed accuracy period: 3 years; post-adjustment guaranteed accuracy period: 3 years; g								
Temperature coefficient Within operating temperature range, add 0.1 x accuracy specifications per °C (at other than								
Offset drift (from -25°C to 65°C) CT7731: Within ±0.5% f.s. / CT7736: Within ±0.1% f.s. / CT7742: Within ±0.1% f.s.								
Effect of radiative radiofrequency electromagnetic field		15% f.s. at 10 V/m						
Effect of conductive radiofrequency electromagnetic field 10% f.s. at 3 V/m								
AC accuracy guarantee conditions	Sine wave input							
	CT7631/CT7731	CT7636/CT7736	CT7642/CT7742					
Effect of conductor position (deviation from center)	Within ±1.5%	Within ±2.0%	Within ±1.0%					
Effect of external magnetic field (400 A/m, DC)	Within 1.5% f.s.	Within ±0.5% f.s.	Within ±0.2% f.s.					

DISPLAY UNIT

AC/DC AUTO-ZERO CURRENT SENSOR Frequency band: DC to 5 kHz (-3 dB)



CM7290







AC/DC CURRENT SENSOR Frequency band: DC to 10 kHz (-3 dB)







Use an AC/DC Auto-zero Current Sensor or AC/DC Current Sensor with the Display Unit and Output Cord to generate output for a Memory HiCorder, data logger, or other instrument.

AC FLEXIBLE CURRENT SENSOR

Frequency band: 10 Hz to 50 kHz (within ±3 dB)



protector (attach to unit), instruction manual

CT7044

600 A/6000 A AC ø100 mm (3.9 in) cable diameter ø7.4 mm (0.29 in)



600 A/6000 A AC ø180 mm (7.0 in) cable diameter ø7.4 mm (0.29 in)

CT7045



600 A/6000 A AC ø254 mm (10 in) cable diameter ø7.4 mm (0.29 in)

OUTPUT CORD For use with the Display Unit



L9094 For use with banana terminals



L9095 For use with BNC connectors



L9096 For use with terminal blocks

PL14 EXTENSION CABLE For extending the sensor cable to the Display Unit



L0220-01 2 m (6 6 ft) **L0220-02** 5 m (16.4 ft) L0220-03 10 m (32.8 ft) L0220-04 20 m (65.6 ft) **L0220-05** 30 m (98.4 ft) **L0220-06** 50 m (164 ft) L0220-07 100 m (328 ft)

Other options



AC ADAPTER 9445-02



CARRYING CASE C0220

Stores one sensor, one Display Unit, an AC adapter, and an output cord.



CARRYING CASE C0221

Stores three sensors. one Display Unit, an AC adapter, an output cord, and an extension cable of up to 30 m (98.4 ft) in



MAGNETIC STRAP Z5004

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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 USA CORPORATION

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

HIOKI (Shanghai) SALES & TRADING CO., LTD. TEL +86-21-63910090 FAX +86-21-63910360 http://www.hioki.cn / E-mail: info@hioki.com.cn

HIOKI INDIA PRIVATE LIMITED

TEL +91-124-6590210 E-mail: hioki@hioki.in

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