

# HIOKI

## AC/DC CURRENT SENSOR CT7000 Series DISPLAY UNIT CM7290

**Test Equipment  
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Robust support for current measurement through outstanding interoperability with Memory HiCorders and data loggers

## Measurement

Extensive selection of sensors for new current measurement possibilities

## Display

Immediate confirmation of measured values in the field

## Output

Smooth configuration and setup

## Recording

Outputting of data to Memory HiCorders and data loggers for extended recording

## Analysis

Outputting of data to Memory HiCorders and data loggers for waveform observation



\*Only the Display Unit CM7290 features a drop-proof design.



## Current measurement

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Observe instantaneous waveforms with an AC/DC current sensor. AC/DC auto-zero current sensors facilitate extended waveform recording.



## Display

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Check measured values in the field with the Display Unit. It's also easy to output data to Memory HiCorders and data loggers.



## Output

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Generate four types of output depending on your application. The ability to convert the measured waveform prior to output to suit the parameter being observed simplifies analysis.

## Extensive selection of sensors for new current measurement possibilities



<b>CT7742</b> 2000 A ø55 mm (2.17 in)	<b>CT7736</b> 600 A ø33 mm (1.3 in)	<b>CT7731</b> 100 A ø33 mm (1.3 in)
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<b>CT7642</b> 2000 A ø55 mm (2.17 in)	<b>CT7636</b> 600 A ø33 mm (1.3 in)	<b>CT7631</b> 100 A ø33 mm (1.3 in)
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### AC/DC AUTO-ZERO CURRENT SENSOR

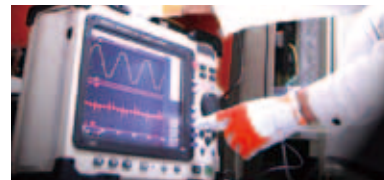
Frequency band: DC to 5 kHz



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

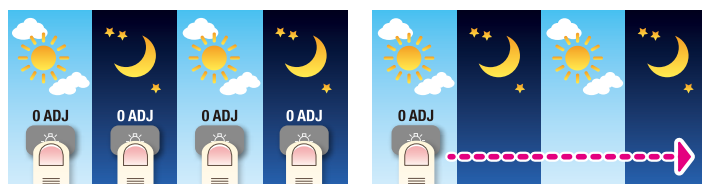
Frequency band: DC to 10 kHz  
(Standard sensor)



Use to observe instantaneous waveforms and make short-term measurement in locations without temperature variations.

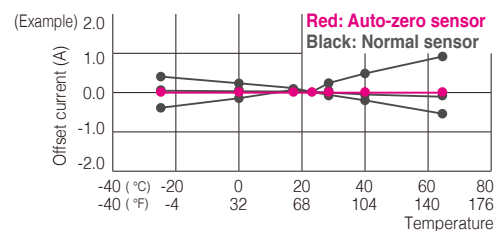
#### AC/DC auto-zero current sensors

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.



Press and hold button for 1 sec. after configuration.

### 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.



### 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.

**WAVE**  
Waveform output

**RMS**  
RMS output

**PEAK**  
Peak output

**FREQ**  
Frequency output

### 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.



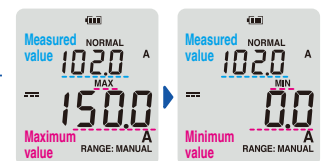
For use with BNC connectors

For use with terminal blocks

For use with banana terminals

### 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.



Single-button display switching

### 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.



### Battery power for convenient testing

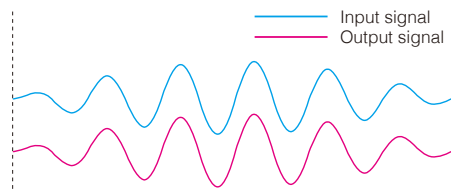
The unit can be used with two AA alkaline batteries. This cord-free mode of operation delivers outstanding ease of use in the field.

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



## WAVE: Waveform output

Output the waveform without modification.



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

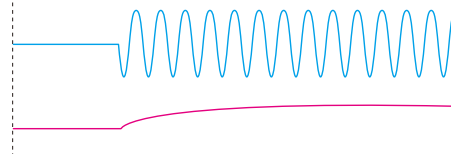
**Example devices used**

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

## 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



Record and monitor RMS current values at a manufacturing plant

**Example devices used**

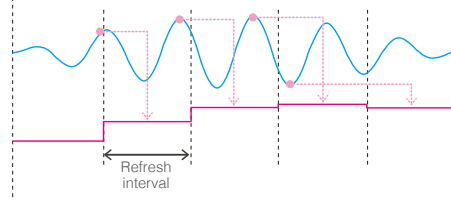
- Display Unit CM7290
- AC/DC Auto-zero Current Sensor CT7742
- Output Cord L9095
- Memory HiCorder MR8880

## 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**

FAST: 50 updates per sec. (0.02 sec.)  
 NORMAL: 5 updates per sec. (0.2 sec.)  
 SLOW: 1 update every sec. (1 sec.)



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

**Example devices used**

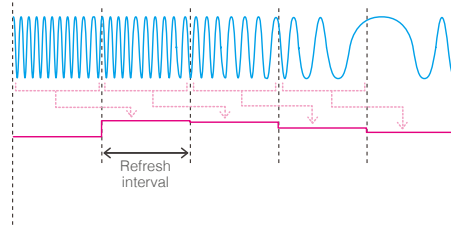
- Display Unit CM7290
- AC/DC Auto-zero Current Sensor CT7736
- Output Cord L9096
- Memory HiLogger LR8431

## 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.



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	<b>PEAK</b> ---FAST: 0.02 sec. / NORMAL: 0.2 sec. / SLOW: 1 sec. <b>FREQ</b> ---FAST: 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)	<b>DC:</b> ±0.3% rdg. ±8 dgt. / <b>AC:</b> ±0.3% rdg. ±8 dgt. (RMS) / <b>DC+AC:</b> ±0.3% rdg. ±12 dgt. (RMS) / <b>Frequency:</b> ±0.1% rdg. ±0.01 Hz
Typical accuracy (output)	<b>DC:</b> ±0.5% rdg. ±0.8 mV / <b>Current:</b> ±0.5% rdg. ±0.8 mV / <b>DC+AC:</b> ±0.5% rdg. ±1.2 mV / <b>Frequency:</b> ±0.3% rdg. ±2.2 mV

## General specifications

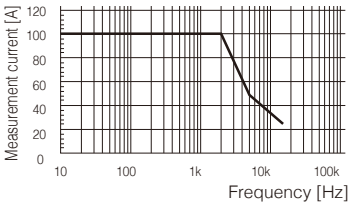
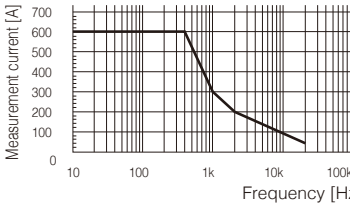
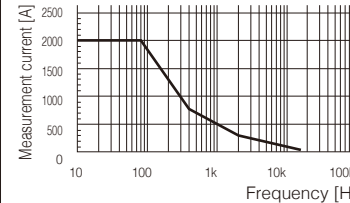
Operating and storage temperature and humidity range	-25 °C to 65 °C ( -13 °F to 149 °F ) , 80% RH (non-condensing, with batteries removed)
Dust and water resistance	IP54 (with sensor connected and caps fitted to AC adapter and power connector)
Standard compliance	Safety: EN61010 EMC: EN61326, EN61000
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)	Display value hold function	YES
Zero-adjustment at power-on	Automatic zero-adjustment when powered on	Backlight	YES
Analysis display	Display of maximum, minimum, and average values as well as maximum and minimum crest values since activation of analysis display	Auto-power off	YES
Filter	180 Hz low-pass filter, on/off pass band setting	Configuration save function	YES
Output amplification	Output at ×10 normal level	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	<b>CT7631, CT7636, CT7642:</b> DC to 10 kHz (-3 dB) / <b>CT7731, CT7736, CT7742:</b> DC to 5 kHz (-3 dB)		
Rated measurement current	100 A AC/DC	600 A AC/DC	2000 A AC/DC
Output rate	1 mV/A		0.1 mV/A
Measurable conductor diameter	ø33 mm (1.3 in) or less		ø55 (2.17 in) mm or less
Ranges <sup>*1</sup>	100.0 A / 60.00 A	600.0 A / 60.00 A	2000 A / 600.0 A
Output connector	HIOKI PL14		
Maximum measurement current			
	Peak value	150 A peak	900 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)

\*1: When used with CM7290

## General specifications

	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-condensing)		
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 <sup>*2</sup>	600 V AC/DC (CAT IV)	1000 V AC/DC (CAT III) / 600 V AC/DC (CAT IV)	
External dimensions and mass <sup>*3</sup>	Approx. 58 mm (2.3 in) W × 132 mm (5.2 in) H × 18 mm (0.7 in) D approx. 250 g (8.8 oz)	Approx. 64 mm (2.5 in) W × 160 mm (6.3 in) H × 34 mm (1.3 in) D approx. 320 g (11 oz)	Approx. 64 mm (2.5 in) W × 95 mm (7.7 in) H × 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) (extendible to max. of 100 m (328 ft) with optional products; subject to limits imposed by connected device)		

\*2: Anticipated transient overvoltage: 8000 V

\*3: Not including dimensions of protruding parts, lever, or jaws.

# Combined accuracy CT7600/CT7700 series + CM7290

## CM7290 + CT7631/CT7731

(AC: 45 Hz ≤ f ≤ 66 Hz)

Range	Amplitude [A]			DC output	AC output		
	WAVE	RMS	PEAK	WAVE	WAVE	RMS	PEAK
60.00 A	I ≤ 60	3 ≤ I ≤ 60	peak   ≤ 150	±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	I ≤ 80 80 ≤ I ≤ 100	30 ≤ I ≤ 100		±1.5% rdg. ±1.3 mV	±1.5% rdg. ±1.3 mV, ±2.0 deg. ±1.5% rdg. ±1.5 mV, ±2.0 deg.	±1.8% rdg. ±1.3 mV	±3.5% rdg. ±9.0 mV

Range	Amplitude [A]			AC + DC output					
	WAVE	RMS	PEAK	WAVE		RMS		PEAK	
				DC	AC	DC	AC	DC	AC
60.00 A	I ≤ 60	3 ≤ I ≤ 60	peak   ≤ 150	±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	I ≤ 80 80 ≤ I ≤ 100	30 ≤ I ≤ 100		±2.5% rdg. ±1.7 mV	±1.5% rdg. ±1.7 mV, ±2.0 deg.	±2.7% rdg. ±1.7 mV	±1.8% rdg. ±1.7 mV	±3.5% rdg. ±9.0 mV	±3.5% rdg. ±9.0 mV

Range	Amplitude [A]			Display				
	DC	AC/AC+DC	PEAK	DC mode	AC mode	AC+DC mode		AC peak mode
				DC	AC	DC	AC	AC
60.00 A	I ≤ 60	3 ≤ I ≤ 60	peak   ≤ 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			110 <   peak   ≤ 150					
100.0 A	I ≤ 80 80 ≤ I ≤ 100	30 ≤ I ≤ 100	-	±1.3% rdg. ±1.3 A	±1.3% rdg. ±1.3 A	±2.5% rdg. ±2.0 A	±1.3% rdg. ±1.7 A	±3.5% rdg. ±2.7 A
100.0 A			80 < I ≤ 100					

## CM7290 + CT7636/CT7736

(AC: 45 Hz ≤ f ≤ 66 Hz)

Range	Amplitude [A]			DC output	AC output		
	WAVE	RMS	PEAK	WAVE	WAVE	RMS	PEAK
60.00 A	I ≤ 60	3 ≤ I ≤ 60	peak   ≤ 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
600.0 A	I ≤ 600	30 ≤ I ≤ 600	peak   ≤ 600	±2.5% rdg. ±3.8 mV	±2.5% rdg. ±3.8 mV, ±2.0 deg.	±2.8% rdg. ±3.8 mV	±4.5% rdg. ±11.2 mV
			600 <   peak   ≤ 900				±6.5% rdg. ±11.2 mV

Range	Amplitude [A]			AC+DC output					
	WAVE	RMS	PEAK	WAVE		RMS		PEAK	
				DC	AC	DC	AC	DC	AC
60.00 A	I ≤ 60	3 ≤ I ≤ 60	peak   ≤ 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 A	I ≤ 600	30 ≤ I ≤ 600	peak   ≤ 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 <   peak   ≤ 900					±6.5% rdg. ±11.2 mV	±6.5% rdg. ±11.2 mV

Range	Amplitude [A]			Display				
	DC	AC/AC+DC	PEAK	DC mode	AC mode	AC+DC mode		AC peak mode
				DC	AC	DC	AC	AC
60.00 A	I ≤ 60	3 ≤ I ≤ 60	peak   ≤ 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			30 ≤ I ≤ 600					peak   ≤ 600
	600 <   peak   ≤ 900	±6.5% rdg. ±5 A						

## CM7290 + CT7642/CT7742

(AC: 45 Hz ≤ f ≤ 66 Hz)

Range	Amplitude [A]			DC output	AC output		
	WAVE	RMS	PEAK	WAVE	WAVE	RMS	PEAK
600.0 A	I ≤ 600	30 ≤ I ≤ 600	peak   ≤ 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
2000 A	I ≤ 1800 1800 < I ≤ 2000	300 ≤ I ≤ 1800 1800 < I ≤ 2000	peak   ≤ 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
			2300 <   peak   ≤ 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					
	WAVE	RMS	PEAK	WAVE		RMS		PEAK	
				DC	AC	DC	AC	DC	AC
600.0 A	I ≤ 600	30 ≤ I ≤ 600	peak   ≤ 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
2000 A	I ≤ 1800 1800 < I ≤ 2000	300 ≤ I ≤ 1800 1800 < I ≤ 2000	peak   ≤ 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
			2300 <   peak   ≤ 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

Range	Amplitude [A]			Display				
	DC	AC / AC+DC	PEAK	DC mode	AC mode	AC+DC mode		AC peak mode
				DC	AC	DC	AC	AC
600.0 A	I ≤ 600	30 ≤ I ≤ 600	peak   ≤ 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			300 ≤ I ≤ 1800 1800 < I ≤ 2000					peak   ≤ 2300
	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; guaranteed accuracy temperature and humidity range: 23°C ±5°C, 80% RH or less; after zero-adjustment; jaw cycle count: 30,000 or less		
Temperature coefficient	Within operating temperature range, add 0.1 × accuracy specifications per °C (at other than 23°C ±5°C).		
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.

# Lineup

## DISPLAY UNIT



**CM7290**

Accessories: AA alkaline battery (LR6) × 2, protector (attach to unit), instruction manual

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



**CT7731**  
100 A AC/DC  
ø33 mm  
(1.3 in)



**CT7736**  
600 A AC/DC  
ø33 mm  
(1.3 in)



**CT7742**  
2000 A AC/DC  
ø55 mm  
(2.17 in)

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



**CT7631**  
100 A AC/DC  
ø33 mm  
(1.3 in)



**CT7636**  
600 A AC/DC  
ø33 mm  
(1.3 in)



**CT7642**  
2000 A AC/DC  
ø55 mm  
(2.17 in)

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)



**CT7044**  
600 A/6000 A AC  
ø100 mm (3.9 in)  
cable diameter ø7.4 mm (0.29 in)



**CT7045**  
600 A/6000 A AC  
ø180 mm (7.0 in)  
cable diameter ø7.4 mm (0.29 in)



**CT7046**  
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



**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)

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

## 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 length.



**MAGNETIC STRAP**  
Z5004

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