Clamp-type Portable Power Monitor

ZN-CTC11

CSM_ZN-CTC11_DS_E_2_1

Power Logger Built into the Clamp. All-in-one Construction for Ultimate Simplicity.

- A 200-A CT integrated into a clamp for immediate use with one-touch mounting.
- Just press the REC/STOP Key to start logging.
- Transfer logged data to your computer via USB.
- Display accumulated power consumption with enclosed software.





Refer to Safety Precautions on page 2.

Ordering Information

Power Monitor

Appearance	Product name	Model	Power supply
	Clamp-type Portable Power Monitor	ZN-CTC11	Secondary lithium battery (charged via USB)

Ratings/Characteristics

Power Monitor Ratings

ZN-CTC11	
200 A	
50 Hz/60 Hz	
5,000	
23	
480 VAC max.	
7-segment LCD with 4 digits on 1 row, supplemental information indicators, and CHARGE indicator	
1 s, 2 s, 5 s, 10 s, 20 s, 30 s, or 1 min	
Power Monitor: Instantaneous power, Computer software: Accumulated power consumption	
105 files max. *2 Approx. 1,700,000 data items (Data item size: Approx. 4 bytes) *3	
Lithium secondary battery (charged from PC USB port)	
75 mA max. (maximum current flow when connected via USB)	
Approx. 1 week (logging interval: 1 s, ambient temperature: 23°C)	
Approx. 3 hr (at 23°C from a battery level of 0)	
Battery powered: 0 to 50°C (with no condensation or icing) Charging via USB: 0 to 40°C (with no condensation or icing)	
20% to 80% (with no condensation or icing)	
-10 to 60°C, 20% to 80% (with no condensation or icing)	
With USB connector case: 50 MΩ min. (at 500 VDC)	
With USB connector case: 1,000 VAC, 50/60 Hz for 1 min	
10 to 150 Hz with a 0.7-mm double amplitude or acceleration of 50 m/s² for 80 min each in X, Y, and Z directions	
150 m/s² 3 times each in six directions (up/down, left/right, forward/backward) *5	
ABS	
5,000	
IP30	
Approx. 300 g	
Instruction sheet, USB cable (mini-B), and handstrap (packed connected to Power Monitor)	

^{*1.} The instantaneous power is calculated from the measured current and the set voltage and set power factor. Set the suitable mode for the measured item.

^{*2.} One file is created each time logging is started. If the maximum number of files is exceeded, an E12 error is displayed and you will not be able to start logging.

^{*3.} If the number of data items exceeds the internal memory capacity, an E11 error occurs and logging stops.

*4. The battery life depends on the measurement environment, logging interval, and operating mode.

***5.** Install the Power Monitor in a location in which it will not be subject to shock.

Power Monitor Measurement Specifications

Item Model	ZN-CTC11	
Rated primary current	1.2 to 200 A	
Maximum primary input current	120% (continuous) of rated input current	
Current accuracy	±2.0% FS ± 1 digit (ambient temperature of 23°C, rated input, and rated frequency)	
Frequency of measured circuit	50 Hz/60 Hz	
Logged values	Current, instantaneous power, and accumulated power consumption	
Applicable circuit	Single-phase 2-wire circuit or 3-phase 3-wire circuit *	

^{*} For a 3-phase, 3-wire circuit, measurements are performed for balanced three-phase power. If phases R and T are not balanced, the error in the measured values will increase.

Safety Precautions



Electrical shock may occasionally occur. Always turn OFF the power supply to the measured conductors before clamping or unclamping the Power Monitor, and always wear insulating gloves.



Dispose of the Power Monitor as industrial waste. A lithium battery is built into the Power Monitor and combustion or rupture may occasionally result in serious injury. Do not disassemble, deform under pressure, heat to 100°C or higher, or incinerate the battery.





Do not use the Power Monitor in locations where flammable or explosive gases are present. Doing so may occasionally result in minor or moderate explosion, causing minor or moderate injury, or property damage.



Do not disassemble, repair, or modify the Power Monitor.

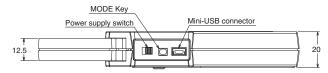
Doing so may occasionally result in electric shock, minor injury, fire, or malfunction.

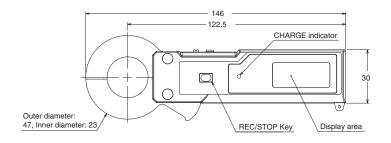


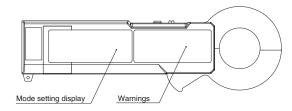
Refer to your OMRON website for FAQs and other technical information. Refer to the relevant Technical Guide on your OMRON website.

Dimensions

ZN-CTC11







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