Power Sensor Station

ZN-KMX

CSM ZN-KMX DS E 2 2

Strong Support for Construction of a Monitoring System

- A single button operation logs, in block, the data on 31 KM series units.
- The attached software easily enables graphic representation of the saved data.
- You can set the connected KMs at a time by use of the special tool.





For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

Main unit

Stations

Appearance	Item	Model	Power supply
EDERL 20110 m	Station	ZN-KMX21-A	DC cable

Options

Appearance	Item		Model
	DC cable (ZN9-ED01-S comes with ZN-KMX21-A)	Straight type (2 m)	ZN9-ED01-S
		Right angle type (2 m)	ZN9-ED02-S
	AC Adapter Power supply voltage: 100 to 240 VAC/50 to 60 Hz Operating temperature range: 0 to 40°C		ZN9-ACP01-S
	Mounting Magnet		ZN9-EM01-S
	Environmental Visualization Software Wave Inspire ES *1 *2 *3		ZN-SW11-S

- *1. This software has the following merits.
 - Real-time monitoring of waveforms is available.
 - Monitoring is synchronized with temperature/humidity sensors and other environmental sensor series units
 - Data is displayed on layout drawings.
- *2. System requirements

OS: Windows XP / Windows Vista / Windows 7 (64-Bit is supported for Windows 7 alone)

CPU: compatible Intel processors, 1 GHz or higher.

Memory: 1 GB or more (2 GB or more recommended)

*3. The compliant version is Ver2.2.0 or later

Connection Example

Data on 31 units of KM series for electric power monitoring can be logged, in block to the SD card.



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Ratings and Specifications

Station unit

Item Model	ZN-KMX21-A	
Connectable Power Sensor/ Monitor	KM20-B40-FLK, KM50-C, KM50-E, KM100	
Max. Number of Connectable Power Sensor/Monitor Units	31 units	
Display	7-seg. 5-digit 2-step LCD display, auxiliary information indicator displays	
Recording Interval	1 s, 2 s, 5 s, 10 s, 20 s, 30 s, 1 min.	
Recorded data	Momentary power, Integrated power, Power factor, Sum of pulse input counts 1 and 2 *1	
Operation Function	Integrated power total sum, integrated momentary power, electricity rate total sum	
Recording Mode	Continue mode *2, Ring mode *3	
External Output	Alarm output (Photocoupler output) *4	
Internal storage device	Internal memory: approx. 200 data items (at maximum load); approx. 6800 data items *5 (at minimum load)	
External storage device	SD card (to save measured values and to save/read set values), Recommended SD card: HMC-SD291 (manufactured by OMRON) *6	
Power Supply	DC input: 24 VDC±10%	
Current Consumption	80 mA max.	
Operating Temperature	Without Ethernet: -10°C to 40°C (no condensation or icing) With Ethernet: 0°C to 40°C (no condensation or icing)	
Operating Humidity	20% to 85% (no condensation or icing)	
Storage Humidity/Temperature	-15°C to +60°C, 20% to 85% (no condensation or icing)	
Insulation Resistance	20 MΩ (500 VDC)	
Withstand Voltage	1000 VAC, 50/60 Hz, 1 min.	
Vibration Resistance	10 to 150 Hz, 0.7 mm double amplitude, acceleration: 50 m/s² for each in X, Y and Z directions for 80 min *7	
Shock Resistance	150 m/s ² in 6 directions (+/-X, +/-Y, and +/-Z directions), 3 times each *7	
Material	ABS	
Degree of Protection	IP30	
Mounting	Magnet mounting, screw mounting, hook	
Weight (in Package)	Approx. 500 g	
Accessories	Instruction Sheet, Startup Guide, Utility Disk (CD-ROM) *8, Alarm Output Connector *9, KM Dedicated Connection Cable (3 m), DC cable (straight type), Ferrite core	

- *1. Only supported for KM50-C and KM50-E.
- *2. Automatically writes the data to the SD memory card when the internal memory reaches its capacity and continues recording until the SD card memory capacity reaches its limit. The unit stops operation if there is no SD memory card inserted when the internal memory reaches its capacity. (Recording can be resumed after inserting an SD memory card and outputting the data to it at a press of button.)
- *3. Continues the recording of the latest measured values until the internal memory reaches its capacity. (If the internal memory capacity exceeds the capacity, data is overwritten from the oldest one in the memory.)
- *4. Output when the integrated power upper limit specified in THR mode is exceeded
- *5. The maximum load is applied when 31 KM50- units are connected; and the minimum load, when a single KM20-B40-FLK is connected.
- *6. You can temporarily read and write data with an SD card that complies with SD/SDHC card standards and was made by another company, but the SD card may suddenly not be recognized, preventing you from accessing the data.

 *7. The vibration resistance when mounted using the ZN9-EM01-S magnets (separately sold): 10 to 55 Hz, 0.3 mm double amplitude, acceleration:
- *7. The vibration resistance when mounted using the ZN9-EM01-S magnets (separately sold): 10 to 55 Hz, 0.3 mm double amplitude, acceleration: 20m/s² for each in X, Y and Z directions for 50 min. The installation place must be free from physical shock.
- *8. The Utility Disc includes SD Viewer software, Energy Viewer software and manual pdf. The provided software operating environment/OS: Windows XP/ Windows Vista / Windows 7; CPU: Intel-compatible processor 1.5 GHz or higher; Memory: 1 GB or more (Recommended: 2 GB or more)
 - Microsoft, Windows, and Windows 7 are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- *9. OMRON's XW4B-02B1-H1 connector.

Safety Precautions



This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.

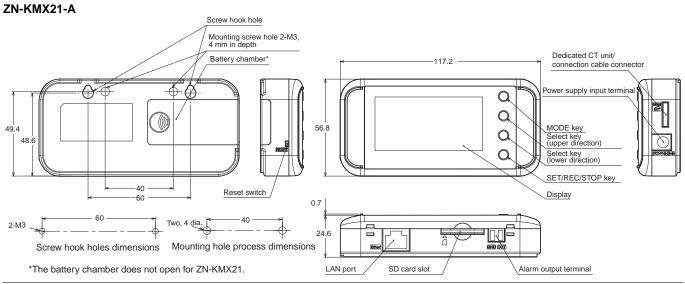


For technical information and product FAQs, refer to the "Technical Guide" on your OMRON website.

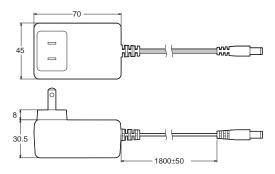
(Unit: mm)

Dimensions

Station unit



ZN9-ACP01-S



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