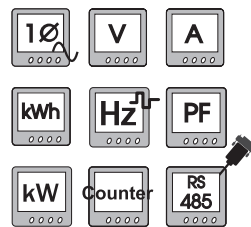




IEC 62053-21:2020



รอกเบิกสินค้าถ่ายรูปแบบใหม่

Specification

Power Supply		110-240VAC 50/60Hz
Power Consumption		2.5VA
Display		6 LED, 7-Segment size 0.39 inch
Input	Volt	1 Phase
	Volt Range	110-240 VAC
	Accuracy Volt	±0.5% FS.
	Current	0.02-65 A
	Accuracy Current	±0.5% FS.
	kW, PF	±0.5% FS.
	kWh	Class 1
	Counter Input	Dry contact Max 100 Hz
Output		3200 Impulse/kWh
RS-485 Communication	Protocol	Modbus RTU
	Baud Rate	2400, 4800, 9600, 19200, 38400, 57600 bps
	Parity	None, Even, Odd
	Stop Bits	1, 2
	Data Bits	8 Bits
	Address	1-127
Ambient Operation	Temperature	-10 °C to 60 °C
	Humidity	85 % RH Non-Condensing
Ambient Storage	Temperature	-20 °C to 80 °C
	Humidity	85 % RH Non-Condensing
Protection Degree		IP30
Installation		DIN-RAIL
Material		ABS-V0
Size (mm.)		89 x 76 x 74.50 ±0.5
Weigth (kg.)		295

Description

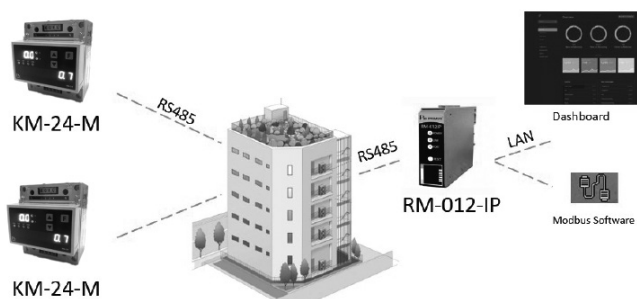
- Single Phase Energy Meter With RS-485 : KM-24-M is an energy meter for single-phase electrical systems.
- It can measure voltage (V), current (A), power (kW), electrical energy (kWh) and display water consumption in cubic meters (m³) via pulse input from a water meter.
- Voltage measurement range: 110 – 240 VAC.
- Current measurement range: 0.02 – 65 A (direct connection).
- Communication: RS-485 Modbus RTU Protocol, supporting installation of more than 127 meters per system.
- Equipped with an input for receiving pulse signals from a water meter to transmit water consumption data in cubic meters (m³).
- True RMS measurement provides high accuracy.
- 7-segment LED display.
- Complies with IEC 62053-21:2020 and CE-Mark standards.

Operation

KM-24-M is an electrical energy meter that measures V, A, kW, and kWh, supports direct current measurement up to 65 A, and can display water consumption in cubic meters (m³) by receiving pulse signals from a water meter.

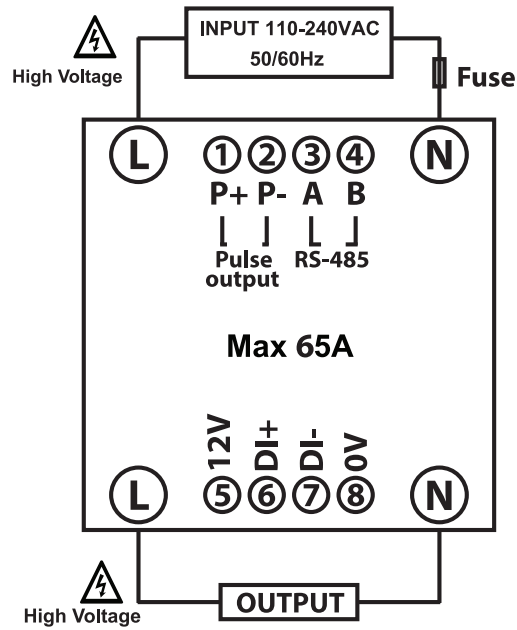
It transmits electrical measurement data and water consumption data via RS-485 Modbus RTU Protocol, allowing connection of up to 127 meters per system.

This helps improve convenience of use, enables online real-time monitoring, reduces manual recording work, ensures data accuracy, and lowers operating costs. The display uses 7-segment LEDs, with the upper row alternating between voltage (Volt) and current (Amp), and the lower row alternating between power (kW), energy (kWh), and water consumption in cubic meters (m³) continuously.

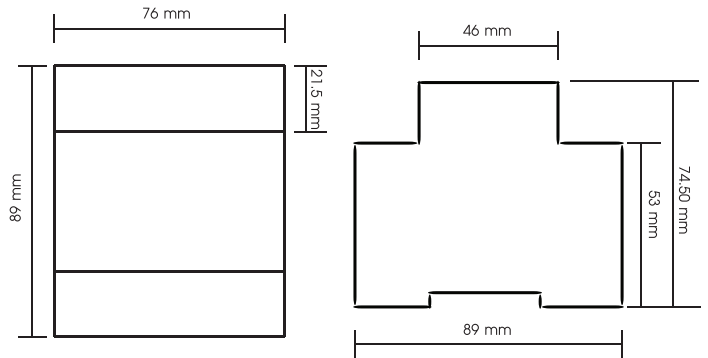


An example application image shows the KM-24-M installed in a condominium to measure electrical energy consumption, with data transmitted to the RM-012-IP and displayed via a dashboard. This allows convenient monitoring of electricity and water consumption without the need to physically visit the meter.

Wiring Diagram



Dimension



Ordering Code

KM-24 -

M