



Description

- Single Phase Volt-Amp-Watt Meter With RS-485 : KM-03N is an electrical meter for measuring voltage, current, and power in a single-phase electrical system.
- True RMS measurement for high accuracy.
- Can be connected with CT up to 10,000/5 A.
- Supports RS-485 Modbus RTU protocol for data logging to a computer.
- 7-segment display, 0.56 inch, 4 digits, 3 rows.
- Equipped with LEDs to indicate operating status and electrical units.

Specification

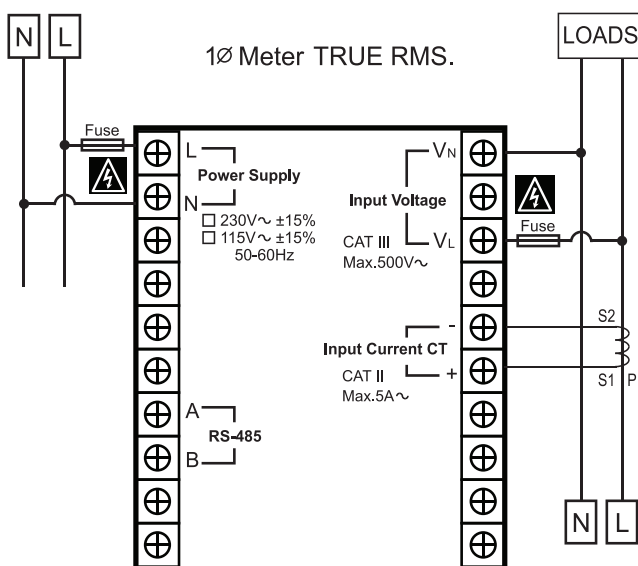
Power Supply		230VAC $\pm 15\%$ 50-60Hz
		115VAC $\pm 15\%$ 50-60Hz
Power consumption		2.5VA
Display		7-Segment, Size 0.56 Inch 4 Digit 3 Rows
Input	Voltage	Single Phase
	Phase Voltage (Vfull)	21-500VAC
	Current	Connection 1 CT, Direct
	Current (Direct)	0.02-10A
	IB (Base Current)	5A
	Current Transformer Ratio	1-2000
	Primary	9999A
	Secondary	0.2-5A
Accuracy		$\pm 1.0\%$ FS
Communication	Protocol	Modbus RTU
	Baud Rate	2400, 4800, 9600, 19200, 38400 bps
	Parity	None, Even, Odd
	Stop Bits	1, 2
	Data Bits	8 Bits
	Support Device Node	128
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	Front Protection Rating	IP52
	Case Protection Rating	IP30
Installation		Panel Mounting
Material		ABS-V0
Size (mm.)		96 x 96 x 76.6
Weight (kg.)		355

Operation

KM-03N measures and displays voltage, current, and power in a single unit for a single-phase electrical system. The measured values are displayed simultaneously on one page, showing the current Volt, Amp, and Watt values in real time.

It can also transmit data via the RS-485 Modbus RTU protocol for data logging to a computer.

Wiring Diagram



- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.

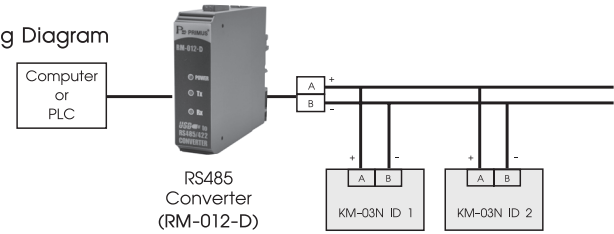
SERIAL COMMUNICATIONS

The KM-03N meter can read measured parameter data in real time via the RS-485 bus system, using the Modbus RTU protocol for communication.

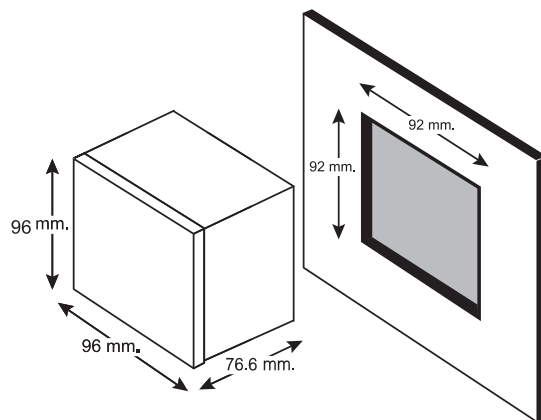
The command set that can be used with the meter is as follows:

0x03 : Read Holding Register 0x04 : Read Input Register
0x06 : Preset Single Register 0x10 : Preset Multi Register

Wiring Diagram



Dimension



Ordering Code

Option		Power Supply	
KM-03N-	NONE	NONE	230VAC
	M	115	115VAC
	RS-485		