

WISE-M501

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Multifunction Panel Mount Smart Power Meter

Multi-Loop DIN Rail Smart Power Meter



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Introduction

WISE-M500 series power meters are easy to use, cost effective smart meters, that provide high accuracy measurement, display and communication (Modbus RTU). Characterized by their compact size, and flexible connection mode. WISE-M500 series meters are ideal for power monitoring operations and equipment preventative maintenance.

Specifications

Input

- **Measurement Type** True RMS measurement
- **Phase & Wiring** 1P2W/ 1P3W/ 3P3W (2 3CT)/ 3P4W; Balanced/ Unbalance Programmable by front buttons(Actual wiring must be same)
- **Input range** Voltage: 40 ~ 400 VLN ; 60 ~ 600VLL
PT Primary range: 100 ~ 50000V
PT Secondary range: 100 ~ 600V
Current: 0 ~ 5A
CT Primary range: 5 ~ 9999A
Frequency: 45 ~ 65Hz
- **Max. Input over** Voltage: 2 X rated continuous: 2500V, 1 sec
Current: 2 X rated continuous: 20 X rated 1 sec
Voltage: < 0.2VA, Current: < 0.1VA
- **Input burden**
- **Accuracy & Resolution**

Parameter	Accuracy	Resolution	Parameter	Accuracy	Resolution
Voltage	0.25%	0.1 V	Power Factor	0.5%	0.001
Current	0.25%	0.001 A	Frequency	0.2%	0.01 Hz
Natural Current	1.0%	0.001 A	Active Energy	0.5%	0.1 kWh
Active Power	0.5%	1 W	Reactive Energy	0.5%	0.1 kVarh
Reactive Power	0.5%	1 Var	THD	1.0%	0.1%
Apparent Power	0.5%	1 VA			

Communication

- **RS485 port** Up to 38400 bauds, Modbus RTU

Environmental

- **Operating Temp.** 0 ~ 60°C
- **Operating Hum(%RH)** 5 ~ 95%RH, non-condensing
- **Storage Temperature** -10 ~ 70°C

General

- **Certification** EN 61326:2006, EN 61010-1:2010
- **Dimension(W x D x H)** 96 mm x 96 mm x 63 mm
- **Power Requirements** AC 85 ~ 264V / DC 100 ~ 300V
- **Power consumption** AC: ≤ 10W / DC: ≤ 3W @ 230V

Mechanical

- **Panel cutout** 90 mm(W) x 90 mm(H)
- **Case material** Black PC (non-flammable)
- **Enclosure** Front panel: IEC 529 (IP50) Housing: IP20
- **Mounting** Panel mounting
- **Weight** ≤ 400 g

Specifications

Input

- **Measurement Type** True RMS measurement
- **Phase & Wiring** 1P2W/ 1P3W/ 3P3W/ 3P4W;
- **Input range** Voltage: 50 ~ 500V
PT Primary range: 50 ~ 99.99kV
JPT Secondary range: 50 ~ 500V
Current: Depends on external CT
CT Primary range: 1 ~ 9999A
Frequency: 45 ~ 65Hz
- **Max. Input over** Voltage 1.2 X rated continuous(600V max)
Current: Clamp CT Specification 1.2X Rate
Voltage: < 0.2VA, Current: < 0.1VA
- **Input burden**
- **Accuracy & Resolution**

Parameter	Accuracy	Resolution	Parameter	Accuracy	Resolution
Voltage	0.25%	0.1 V	Apparent Power	0.5%	1 VA
Current	0.25%	0.001 A	Power Factor	0.5%	0.001
Natural Current	1.0%	0.001 A	Frequency	0.2%	0.01 Hz
Active Power	0.5%	1 W	Active Energy	0.5%	0.1 kWh
Reactive Power	0.5%	1 Var	Reactive Energy	0.5%	0.1 kVarh

Communication

- **RS485 port** Up to 38400 bauds, Modbus RTU

Environmental

- **Operating Temp.** 0 ~ 60°C
- **Operating Hum(%RH)** 0 ~ 80 RH, non-condensing
- **Storage Temperature** -20 ~ 70°C

General

- **Certification** EN 61326:2006, EN 61010-1:2010
- **Dimension(W x D x H)** 54 mm x 65.5 mm x 81 mm
- **Power Requirements** AC 85 ~ 346V / DC 100 ~ 300V (50 / 60Hz)
- **Power Consumption** AC: ≤ 10W / DC: ≤ 4W

Mechanical

- **Case Material** PC fireproof
- **Mounting** DIN rail
- **Weight** 185 g

Ordering Information

- **WISE-M502-125C060E** Single Phase Two Wire 5-Loop DIN-Rail Power Meter (1P2W5L)
- **WISE-M502-332C060E** Three Phase Three Wire 2-Loop DIN-Rail Power Meter (3P3W2L)
- **WISE-M501-A5V6E** Multi-function Panel Mount Power Meter