

# WISE-M501

# WISE-M502

Multifunction Panel Mount Smart Power Meter

Multi-Loop DIN Rail Smart Power Meter



WISE-M501



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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; 250% V<sub>LN</sub> / 1 sec  
Current: 2 X rated continuous; 20 V rated / 1 sec
- 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; 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