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 range

True RMS measurement Measurement Type Phase & Wiring

1P2W/ 1P3W/ 3P3W (2 3CT)/ 3P4W;

Balanced/ Unbalance

Programmable by front buttons(Actual wiring must be same)

Voltage 40~400 VLN; 60~600VLL PT Primary range: 100~500000V PT Secondary range: 100~600V Current: 0~5A

CTI Primary range: 5-9999A Frequency: 45-65Hz Voltage: 2 X rated continuous: 2500V, 1 sec Current: 2 X rated continuous: 20 X rated 1 sec Max. Input over

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 AC 85~264V / DC 100~300V Power Requirements 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

Specifications

Measurement Type True RMS measurement 1P2W/ 1P3W/ 3P3W/ 3P4W; Phase & Wiring Voltage 50~500V Input range

PT Primary range 50~99.99kV IPT 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 Specification1.2X 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 AC 85~346V / DC 100~300V (50 / 60Hz) **Power Requirements** Power Consumption AC:≤ 10W / DC:≤ 4W

Mechanical

Case Material PC fireproof DIN rail Mounting 185 g Weight

Ordering Information

WISE-M502-125C060E 5-Loop Single Phase DIN-Rail Power Meter WISE-M502-332C060E 2-Loop Three Phase DIN-Rail Power Meter WISE-M501-A5V6E Multi-function Panel Mount Power Meter