

# MDM2100 Multi-Function Power Meter

**MDM2100** is designed for single and three phase power monitoring and measurement. It provides wide range of measurements including current, voltage, energy, watt, power factor, watt-hour, frequency...etc. It also build-in RS485 can easily integrated with most third SCADA system. DIN 96\*96 standard compact size enable it to be easily installed and its low cost and wide flexibility application also made it a good choice for modern power monitoring.

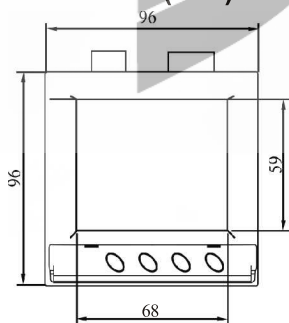


## Features

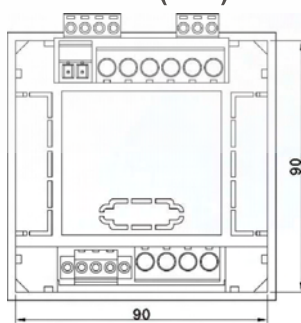
- Comply IEC62053-22 Class 0.5 standard
- V、I accuracy <0.2%, Wh<0.5%, with bi-directional energy measurement
- More than 90 parameters measure
- Current direction setting to correct the display value
- Large size of LCD with backlight adjustment in 4-stage, easy to operate
- Power Quality measurement in V/I unbalance、V Eligibility、Min.& Max. parameters
- Compact size, standard DIN 96\*96, equipped with four clips to tight the meter on the sheet metal
- With RS485 communication protocol

## Mounting

■ Front View (mm)



■ Back View (mm)



- After mounting the instrument, place all four support latch in position.  
**Pannel cut-out area is 92x92mm**

## Certificate

1. LVD Test: EN61010-1
2. CE Test :
  - EN61326 Conducted Emission
  - EN61000-3-2 Harmonic Current Emission
  - EN61000-4-2 Electrostatic Discharge
  - EN61000-4-4 Electrical Fast Transient/Burst
  - EN61000-4-6 Conducted Susceptibility
  - EN61000-4-11 Voltage Dips and Interruption
3. FCC Test : ClassA and CISPR 22
  - EN61326 Radiated Emission
  - EN61000-3-3 Voltage Fluctuation and Flicker
  - EN61000-4-3 Radiated Susceptibility
  - EN61000-4-5 Surge
  - EN61000-4-8 Power Frequency magnetic Field

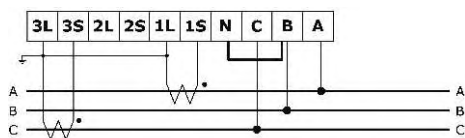


## Specification

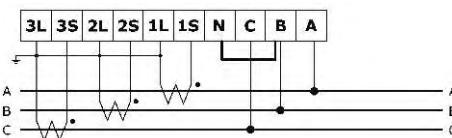
<b>Aux Power</b>	AC80-264V/DC100-300V
<b>Input Voltage</b>	10V-600V L-L
<b>Input Current</b>	2mA-5A
<b>Accuracy</b>	V、I 0.2% , W 0.5% (PF=1.0)
<b>Frequency</b>	45-65Hz
<b>Measures</b>	V, I, kW, kvar, kVA, kWh, kvarh, kVAh PF, Frequency, Demand, Running hour
<b>Alarms</b>	NONE、OVER V/I、OVER F；UNDER V/I、UNDER F；OVER Dmd；ANY
<b>Power Quality</b>	V/I unbalance、V Eligibility、Min.& Max parameters
<b>Display</b>	Mono 96*96 LCD
<b>Communication</b>	RS485*1, LonTalks(option)
<b>Timer</b>	RTC
<b>Wiring Ports</b>	Aux Power、Voltage、Current、DO、RS485、LON
<b>I/O</b>	DO OUTPUT*2；DO1 Alarm output、DO2 Pulse/ Alarm output
<b>Operation Temperature</b>	-20℃-70℃
<b>Storage Temperature</b>	-25℃-80℃
<b>Humidity</b>	20-90%RH
<b>Dust/Water Proof Rating</b>	Panel：IP52，Case：IP20
<b>Size</b>	96(W) x 96(H) x 97(L) mm
<b>Power consumption</b>	0.45~0.7W(Backlight off) 1.3~1.7W(Max., Backlight) 2.3W(Max. Backlight & Lon module)

## Wiring Diagram

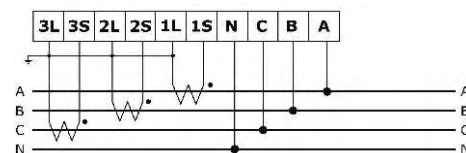
■ 3P3W-2CT



■ 3P3W-3CT



■ 3P4W-3CT



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