

## MFM-800 Multi-Function Power Meter



MFM-800 is designer 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. MFM-800 also build-in RS485 can easily integrate with most third SCADA system.

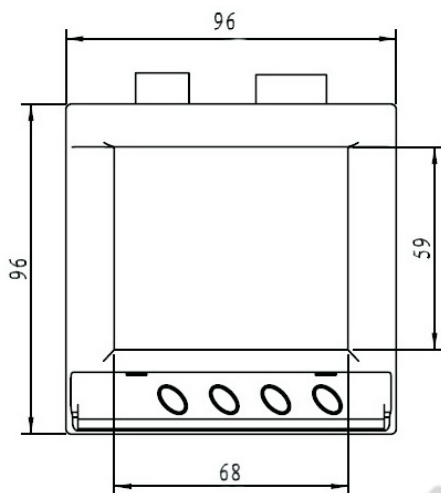
DIN 96\*96 standard compact size enable MFM-800 to be easily installed and its low cost and wide flexibility application also made MFM-800 a good choice for modern power monitoring.

### Features

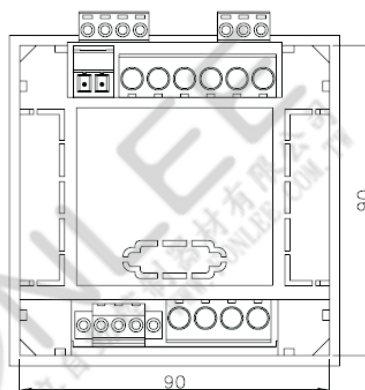
- 🔌 Comply IEC62053-22 Class 0.5 standard
- 🔌 V, I accuracy <0.2%, Wh<0.5%, with bi-directional energy measurement
- 🔌 More than 90 parameters measure
- 🔌 Current direction setting to correct the display value
- 🔌 Large size of LCD with backlight adjustment in 4-stage, easy to operate
- 🔌 Power Quality measurement in V/I THD, 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, optional in RFID Wireless
- 🔌 Good accuracy, wh<0.5%(PF=1)

### Mounting

🔌 Front View(mm)



🔌 Back View (mm)



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

## Specification

|                          |                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------|
| Aux Power                | AC80-264V/DC100-300V, Max.2.3W                                                                                    |
| Input Voltage            | CATII 10V-600V L-L*                                                                                               |
| Input Current            | 2mA-5A                                                                                                            |
| Accuracy                 | V、I 0.2%、W 0.5% (PF=1.0)                                                                                          |
| Frequency                | 45-65Hz                                                                                                           |
| Measures                 | V, I, kW, kvar, kVA, kWh, kvarh, kVAh<br>PF, Frequency, Demand,<br>Running hour                                   |
| Alarms                   | NONE、OVER V/I、OVER F、UNDER V/I、UNDER F、OVER Dmd、ANY                                                               |
| Power Quality            | V/I THD、V/I unbalance、V Eligibility、Min.& Max.parameters                                                          |
|                          | Mono 68X59 LCD                                                                                                    |
| Communication            | RS485*1, optional in RFID Wireless                                                                                |
| Timer                    | RTC                                                                                                               |
| Wiring Ports             | Aux Power、Voltage、Current、DO*2、RS485、Secondary Comm. port<br>DO OUTPUT*2、DO1 Alarm output、DO2 Pulse/ Alarm output |
| Operation Temperature    | -20°C-70°C                                                                                                        |
| Storage Temperature      | -25°C-80°C                                                                                                        |
| Humidity                 | 20-90%RH                                                                                                          |
| Dust/Water Proof Rating  | Panel : IP52、Case : IP20                                                                                          |
| Size                     | 96(W) × 96(H) × 97(L) mm                                                                                          |
| Power consumption        | 0.45~0.7W (Backlight off)<br>1.3~1.7W (Max. ,Backlight)<br>2.3W (Max. Backlight & Lon module)                     |
| Environmental Conditions | Indoor use<br>Altitude up to 2000M<br>Transient overvoltage on the mains supply is 2500V<br>Pollution degree : 2  |

\*CATII-Is for measurement performed on circuits directly connected to the low voltage installation

## Certificate

📶 LVD Test: EN61010-1

📶 CE Test :

- |                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| - EN61326 Conducted Emission                  | - EN61326 Radiated Emission                   |
| - EN61000-3-2 Harmonic Current Emission       | - EN61000-3-3 Voltage Fluctuation and Flicker |
| - EN61000-4-2 Electrostatic Discharge         | - EN61000-4-3 Radiated Susceptibility         |
| - EN61000-4-4 Electrical Fast Transient/Burst | - EN61000-4-3 Radiated Susceptibility         |
| - EN61000-4-6 Conducted Susceptibility        | - EN61000-4-5 Surge                           |
| - EN61000-4-11 Voltage Dips and Interruption  | - EN61000-4-8 Power Frequency magnetic Field  |

📶 FCC Test : Class A and CISPR 22

## Ordering Code : MFM - 800 - □ - □ - □ - □

| 📶 Type      | 📶 Second communication Port | 📶 CT Option                                                                                                                                                                          | 📶 Frequency        |
|-------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| A. Advanced | 0. None<br>1. RFID Wireless | 0. None : With internal<br>1. 10A External, CTΦ10mm, 10mA~10A<br>2. 60A External, CTΦ10mm, 25mA~60A<br>3. 120A External, CTΦ16mm, 50mA~120A<br>4. 200A External, CTΦ24mm, 100mA~200A | 0. 60Hz<br>1. 50Hz |