solis
GINLONG TECHNOLOGIES CO.,LTD.

## MB-S4-W4

# Solis Data Loggers

The MB-S4-W4 is designed for commercial and industrial (C&I) PV systems, enabling efficient data acquisition, protocol conversion, and power control. It helps maximise system performance through intelligent operation and maintenance.

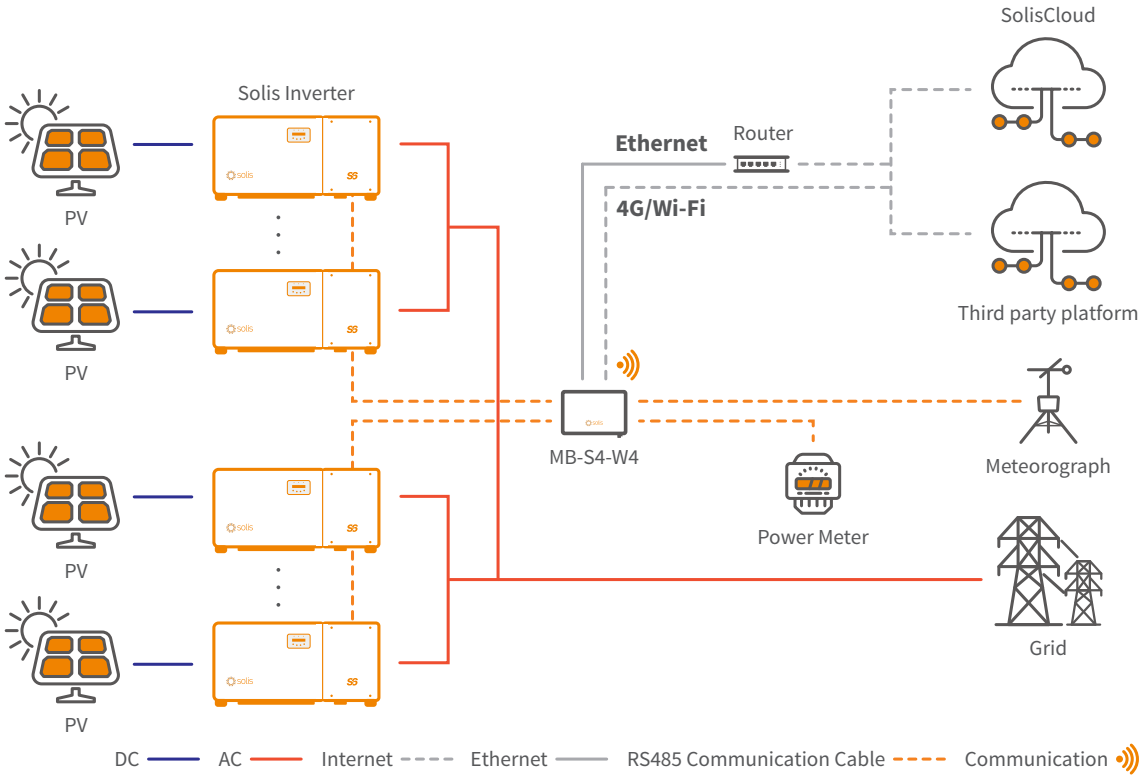
### Features:

- Monitors up to 80 PV inverters
- Supports remote upgrade and maintenance
- Compatible with various export power limitation scenarios
- Enables multi-master plant data transfer
- Built-in web server for monitoring and configuration, no app required
- One-click address allocation for fast commissioning
- Automatic dual power source switching
- Breakpoint Resume Transmission: Supports offline data storage for up to 30 inverters over 30 days; 15 days for 60 inverters, decreasing proportionally as more inverters are connected




MB-S4-W4

## Intelligent Monitoring Solution - MB-S4-W4



# DATASHEET

| Models | MB-S4-W4 |
|---|---|
| **Communication** | |
| Max. manageable device | 80, Each RS485 port ≤ 20 |
| Status indicator | LED × 4 |
| WEB | Embedded Web |
| RS485 | COM × 4, communication distance ≤ 1000 m |
| Ethernet communication | LAN × 2, 10 / 100 Mbps adaptive, communication distance ≤ 100 m |
| Wireless communication | **Wi-Fi:** 802.11 b/g/n (2.4G); 802.11a/n (5G);<br>**Cellular network:** 4G / 3G / 2G |
| Digital / Analog | DI × 4, DO × 2, AI × 4 |
| **Communication Protocol** | |
| RS485 | Modbus-RTU |
| Ethernet | Modbus-TCP, IEC60870-5-104 |
| **Electrical** | |
| Power Adapter | AC input: 100 ~ 240 V, 50 Hz / 60 Hz; DC output: 12 V, 4 A |
| DC input | input1: 12 V , 1 A; input2: 24 V, 0.8 A |
| Power consumption | ≤12 W |
| **Environment** | |
| Operating temperature range | -40 ~ +60°C |
| Storage temperature range | -40 ~ +70°C |
| Relative humidity | 5% - 95% (Non-condensing) |
| Max. operating altitude | 4000 m |
| **Mechanical** | |
| Dimensions (W × H × D) | 225 × 156 × 44 mm |
| Weight | 1.25 kg |
| Ingress protection | IP20 |
| Installation method | Wall mount or desktop installation |
| **Others** | |
| Certification | CE, RoHS |

## Models of Meter and Meteorograph supported by MB-S4-W4

| Type | Vendor | Model | Connection method | Export Limitation |
|---|---|---|---|---|
| Meter | Acrel | ADL3000-E-B | RS485 | Supported |
| | Acrel | DTSD1352 | | Supported |
| | CHINT | DTSU666 | | - |
| | EASTRON | SDM630MCT | | - |
| | Janitza | UMG96RM | | - |
| Meteorograph | Ginlong | PC-4GF | | - |
| | Jinzhou Sunshine | PC-4GF | | - |

**Note:**

1. The newly matched device models will be continuously updated to the above table.
2. If you need to match a new weather meter or electricity meter device, please contact our customer service center and provide materials such as the device's user manual, specification sheet, and communication protocol.