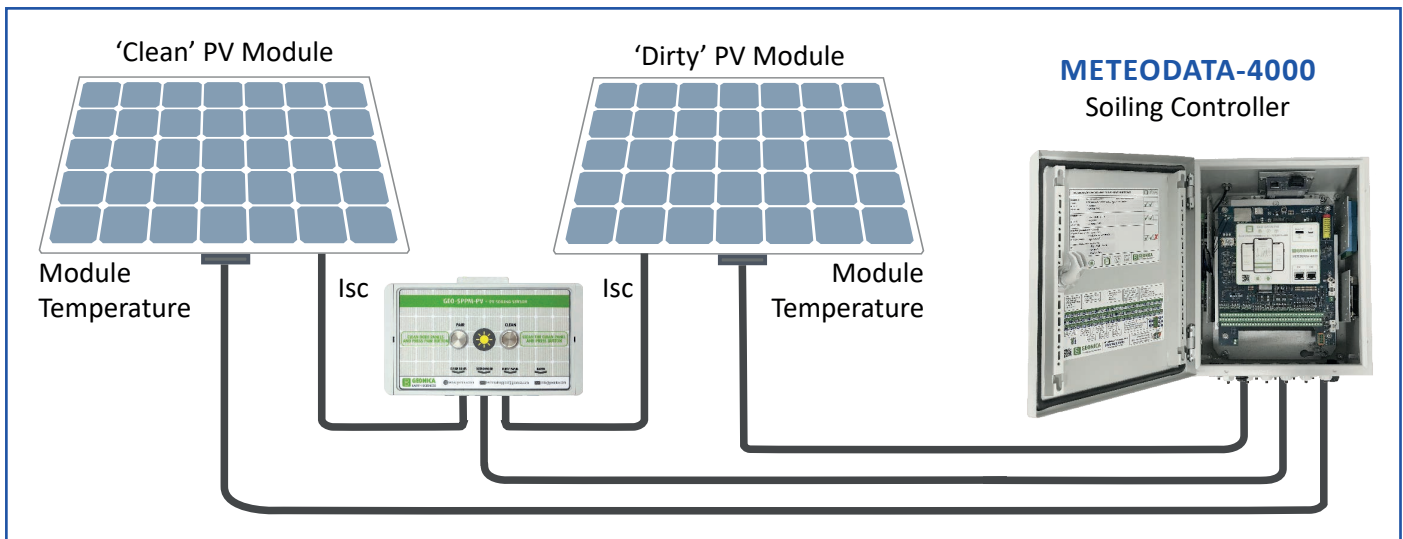


# SEMS-SPPM-PV Soiling System



**SEMS-SPPM-PV Soiling System based on Plant Reference PV Modules** is a Standalone and Automatic Soiling Measurement System with Modbus connection, using Reference PV Modules and Isc measurement, 'Clean PV Module' and 'Dirty PV Module'. Comply with Soiling Measurement Procedure according to **IEC 61724 Method 2**.

## SEMS-SPPM-PV Components

### ■ System Cabinet including

System Controller with Datalogging features:

- 8 or 16 extra Input Channels for additional sensors connection
- Comms: Modbus TCP, RTU, Ethernet, 4G / 3G / GPRS, WiFi, Satellite, etc. for remote sensor data downloading and management
- 230 Vac Power supply unit
- Internal Batteries (2 or 3 x 9 Ah)
- Dual Charge Regulator Vac / Solar Panel Power supply
- IP66 Housing, protections and wiring
- Tracker mounting

### ■ SPPM-PV Isc measurement unit for two reference PV Modules.

### ■ Two 285-Pt100/Pt1000 Module Temperature Sensors

### ■ Two Control Buttons

- 'Clean PV Module' cleaning control
- Pairing, when both 'Clean' and 'Dirty' reference modules are cleaned



### ■ Information Channels

1. Clean PV Module Isc
2. Clean PV Module Temperature
3. Dirty PV Module Isc
4. Dirty PV Module Temperature
5. Timing Angle with reference to solar midday
6. Solar Elevation (optional)
7. Soiling Ratio (%)
8. System Status, providing information about cleaning events, reference modules pairing, Irradiance conditions for soiling measurement.

Note: Reference PV Modules provided by Customer, mounted on the tracker.