

Soiling Measurement System

With Automatically Cleaned Reference Cell



Soiling Measurement

- Compare clean and soiled reference cells
- Automatic washing of clean reference cell

No Maintenance

- No maintenance required with automatically washed reference cells via water spray
- 3-6 month capacity between water refills

Standalone Product

- Can be installed at preconstruction sites or operating PV power plants
- Direct connection to data logger or plant SCADA system

Smart Pump System

- Automatically washes at optimal time of day
- System alerts when it is out of water



Specifications

Soiling Measurement		Power/Comm	
Cell-Cell	Compares soiled reference cell to clean reference cell	Main/AUX Cables	Shielded M12, 5 pin (PWR, GND, RS485A/B)
Power		Communication	
Input Voltage	18-30 VDC	Physical Layer	RS485
Nominal Power	1-6 W (**)	Protocol	Modbus RTU
**Typically <2 W. Draws up to 6 W after completing a wash		Baud Rates	9600, 19200, 38400, 57600
		Data Formats	8N1, 8N2, 8E1, 8O1
Default Washing		RC22 Reference Cells	
Water Capacity	3-6 months	Mounting	Torque tube or fixed tilt. Mounting plate 15" x 2.56" (381 mm x 65 mm)
Duration	~5 seconds	Tank and Electronics Enclosure	
		Dimensions	16.80 x 12.55 x 9.38 in) (427 x 319 x 241 mm)
Temperature Range		Standards	
Site	-20 C to 60 C	Measurement	IEC 61724-1 Class A
Operation	5 C to 50 C	Other	ROHS, CE

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