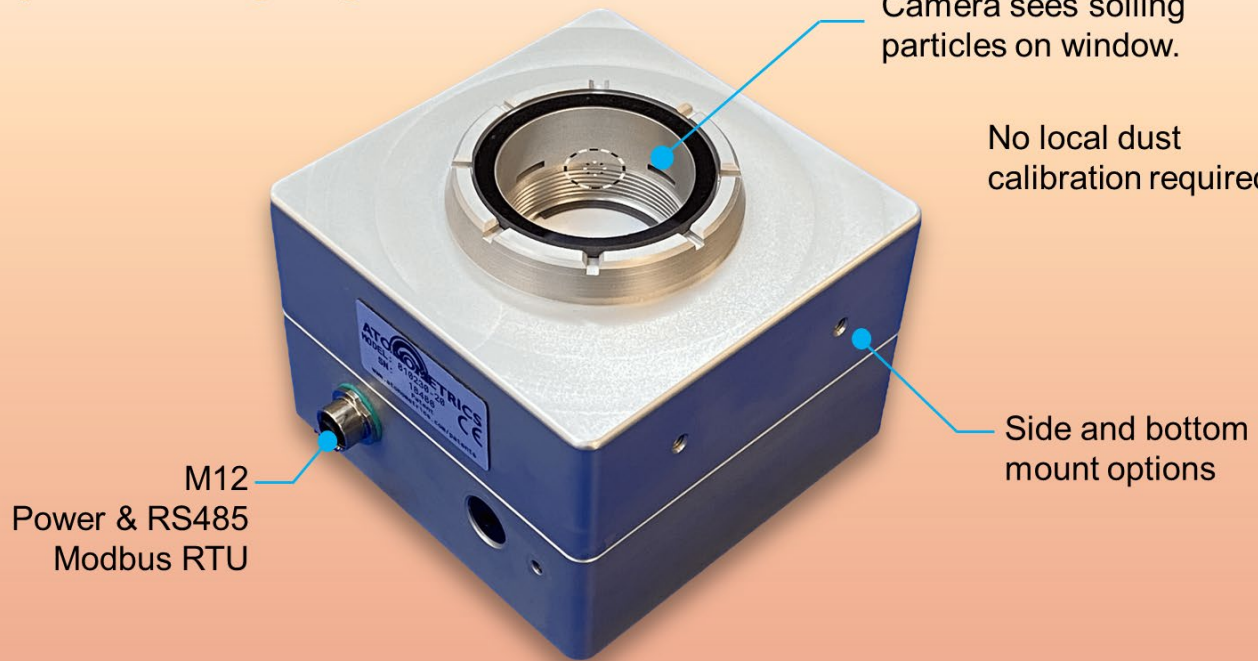


ATONOMETRICS  
**MARS**  
Soiling Sensor

## Maintenance-Free Solution For PV Soiling Monitoring

Easy. Install, configure, go.



Model 810230-20  
HW Rev 01

### Maintenance-free measurement

- Install, configure, go.

### No water, washing, or moving parts

- Does not require cleaning or water.
- No moving parts.

### Unique all-optical technology

- Unique all-optical technology captures images of the sensor surface and performs image analysis to calculate soiling loss.

### No site-specific calibration required

- Mars™ technology does not require site-specific or dust-type-specific calibration.
- No color-dependence of calibration.

### Ideal for a range of PV plants

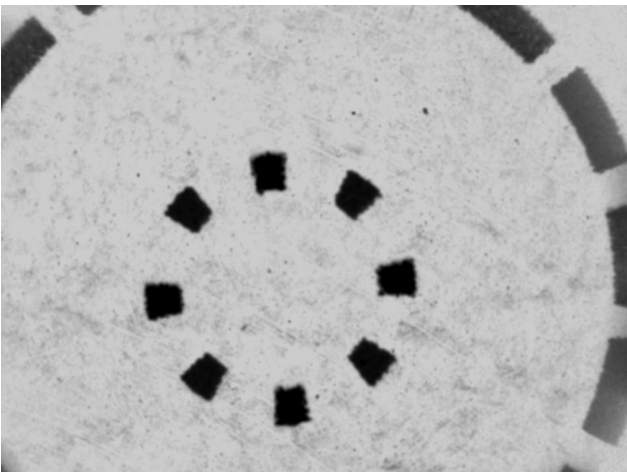
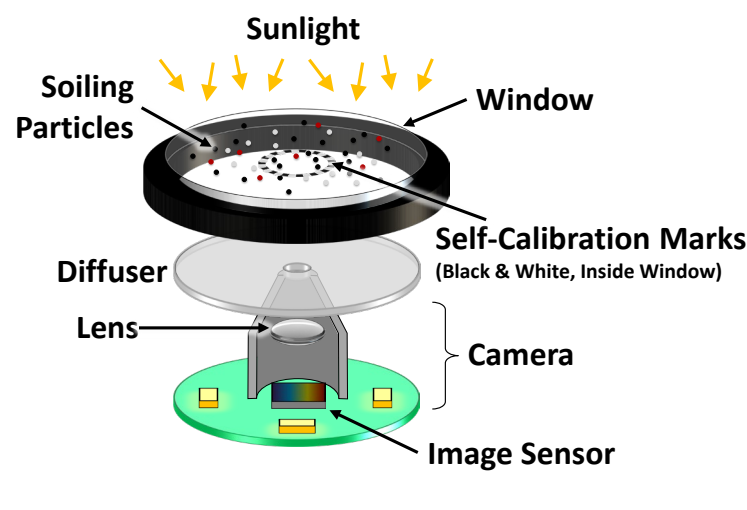
- Suitable for commercial-scale or utility-scale PV.
- Cost-effective for multi-point measurement.

### Easy installation

- Compact sensor mounts anywhere in solar array.
- Quick setup.

# Mars™ Technology

- Patented technology sees soiling particles on the sensor window and does not require any dust-specific calibration.
- Internal image processing calculates transmission loss due to soiling.



## Specifications

General	Model	Mars Soiling Sensor™ 810230-20
	Version	HW Rev 01
	Ambient temperature	-20 to +60 °C
	Input power	10 to 30 VDC
	Power consumption	<3 W average, <6W peak
	Transmission loss	± 1%
	Local dust calibration	Not required
	Communication options	Modbus RTU (RS485)
Mechanical	Material	Anodized aluminum housing
	Ingress protection	IP67
	Dimensions	Main body: 4.53 x 4.53 x 3.86 in. / 115.0 x 115.0 x 98.1 mm
	Weight	3.27 lbs. / 1.48 kg
Connectors	Power & RS485	M12 connector, IP67. Cables available separately
	Configuration Kit	Available separately

## Contact Us

[www.atonometrics.com](http://www.atonometrics.com)