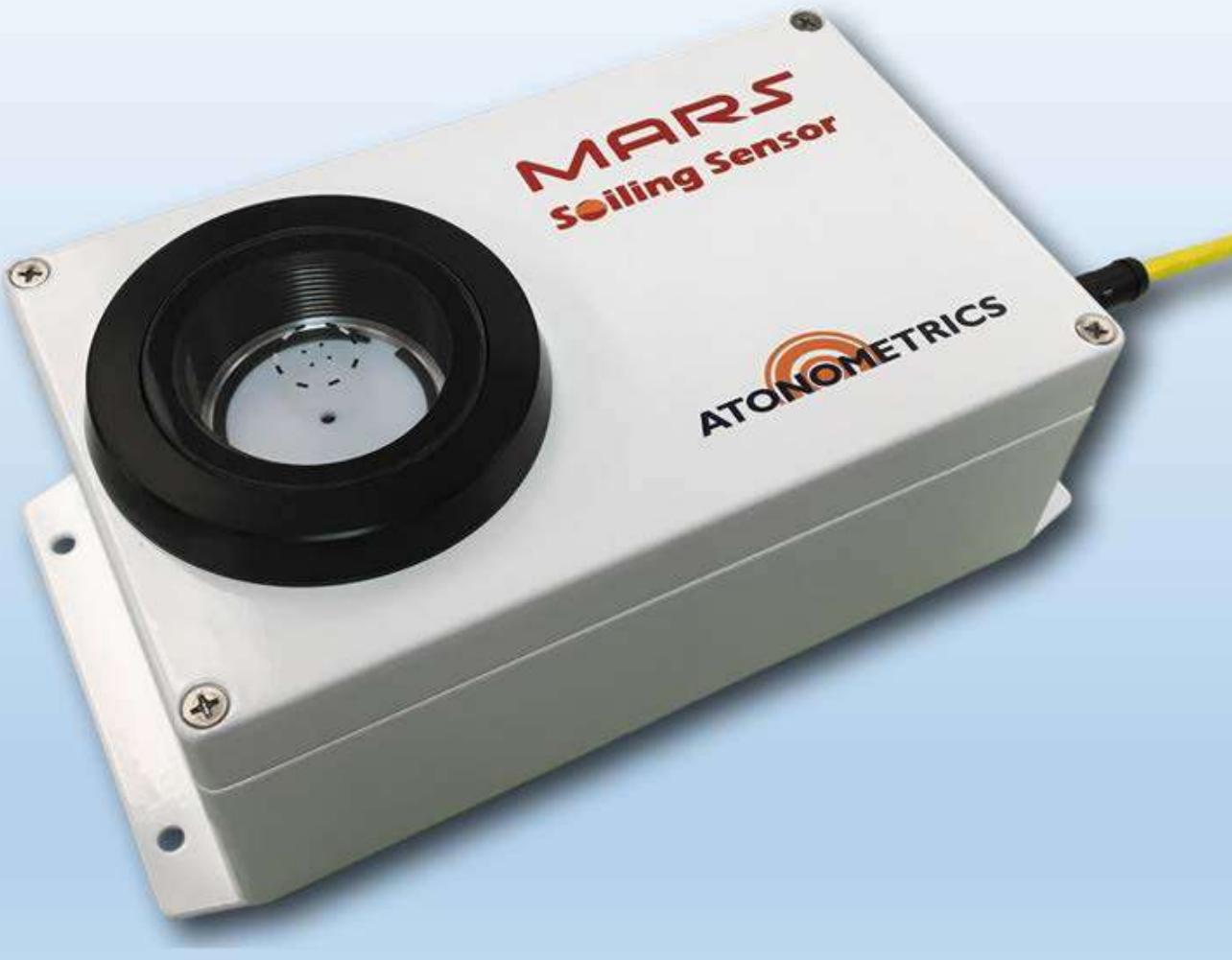


Mars Soiling Sensor™

Maintenance-Free Solution for PV Soiling Monitoring



Maintenance-free measurement

- Specifically designed for low-cost, maintenance-free measurement of PV soiling – with no on-site staff

No water, washing, or moving parts

- Does not use water, does not require cleaning, has 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

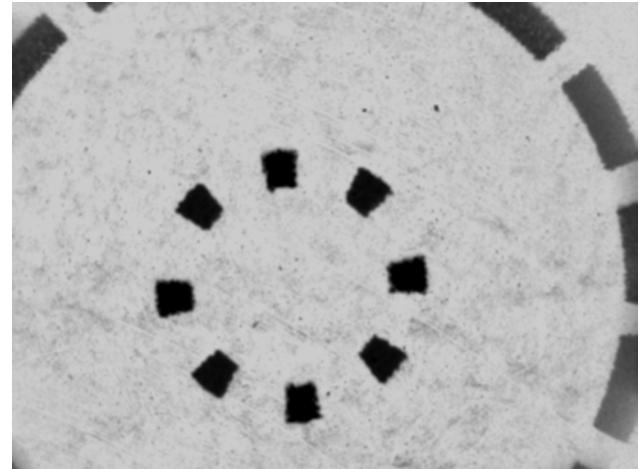
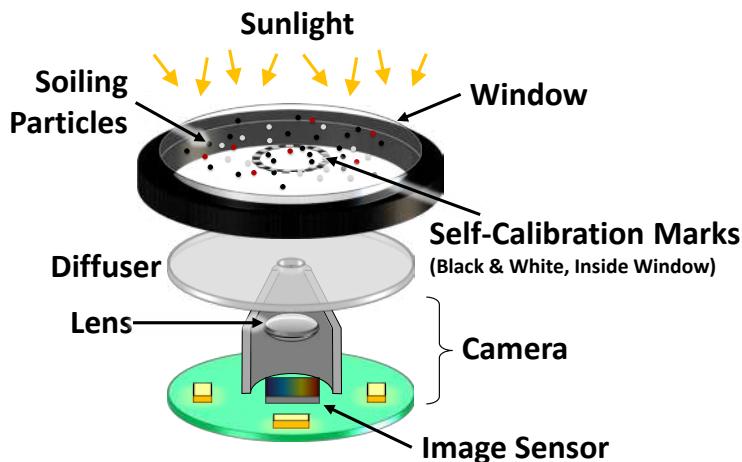
- Fits budgets and constraints of even small PV plants
- Cost-effective solution for multi-point measurement

Easy installation

- Compact sensor mounts anywhere in solar array
- Quick setup

Mars™ Technology

- Patent-pending 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 name	Mars Soiling Sensor™
	Ambient working temperature	-20 to +60 °C
	Input power	10 to 30 VDC
	Power consumption	<3 W typ.
	Inrush current	<300 mA
	Transmission loss accuracy	± 1%
	Local dust calibration	Not required
Enclosure	Material	Powder-coated cast aluminum housing
	Outdoor rating	IP67
	Dimensions	9.13 x 4.80 x 3.43 in. / 231.92 x 121.92 x 87.22 mm
	Weight	3.00 lb / 1.35 kg
	Mounting	4 mounting holes, dia. 0.22 in. / 5.50 mm Mounting plate accessory available
Cables	Power & RS485	Shielded, weather resistant, UV-rated, 24 awg / 0.2 mm ² M12 circular connector, IP67
	Ethernet	Shielded, weather resistant, UV-rated, RJ45, IP67

Contact Us

info@atonometrics.com | www.atonometrics.com | +1 (512) 377-6982
8900 Shoal Creek Blvd., Suite 116, Austin, Texas 78757, USA