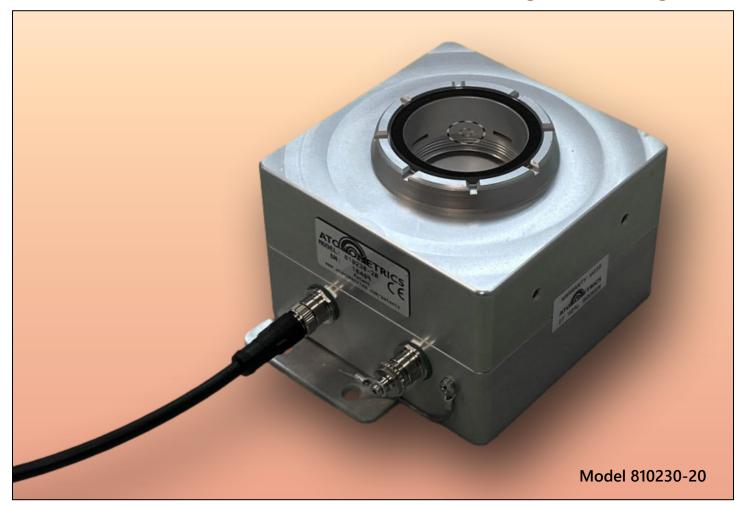


# **Maintenance-Free Solution For PV Soiling Monitoring**



#### 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<sup>™</sup> technology does not require site-specific or dust-type-specific calibration
- No color-dependence of calibration

## Ideal for a range of PV plants

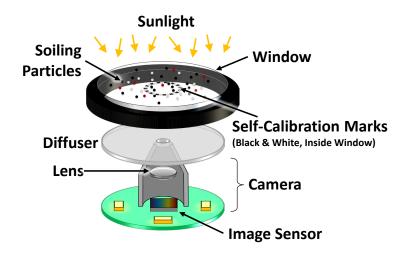
- Fits budgets and constraints of even small PV plants
- Cost-effective solution for multi-point measurement

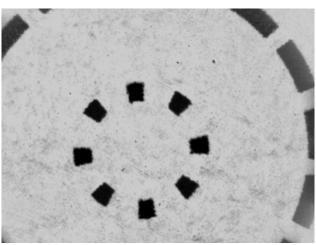
### **Easy installation**

- Compact sensor mounts anywhere in solar array
- Quick setup

### Mars™ Technology

- 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
	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); Modbus TCP (Ethernet)
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
	Mounting	Multiple mounting configurations
		Standard mounting plate accessory included
Connectors	Power & RS485	M12 connector, IP67. Cables available separately
	Ethernet	M12 connector, IP67. Cables available separately
Configuration	Configuration Kit	Available separately

#### **Contact Us**

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