

NRG SOILING MEASUREMENT KIT

The NRG Soiling Measurement Kit provides users with the critical information needed to accurately and reliably quantify the site-specific impacts of soiling caused by dust, snow, and other particles on prospective as well as operating PV projects.

Key Benefits:

- Accurately and reliably quantifies site-specific impacts of soiling losses
- Compliance with IEC 61742 ensures high performance and bankability
- Flexible configurations accommodate pre- and post-construction applications
- Integrates seamlessly with NRG FLARE Systems
- Measure short-circuit current, open circuit voltage, and back-of-module temperature with user's choice of statistical interval as well as optional 1 Hz sample data collection for flexible data analysis options



Pulsed Soiling Module (PSM1)

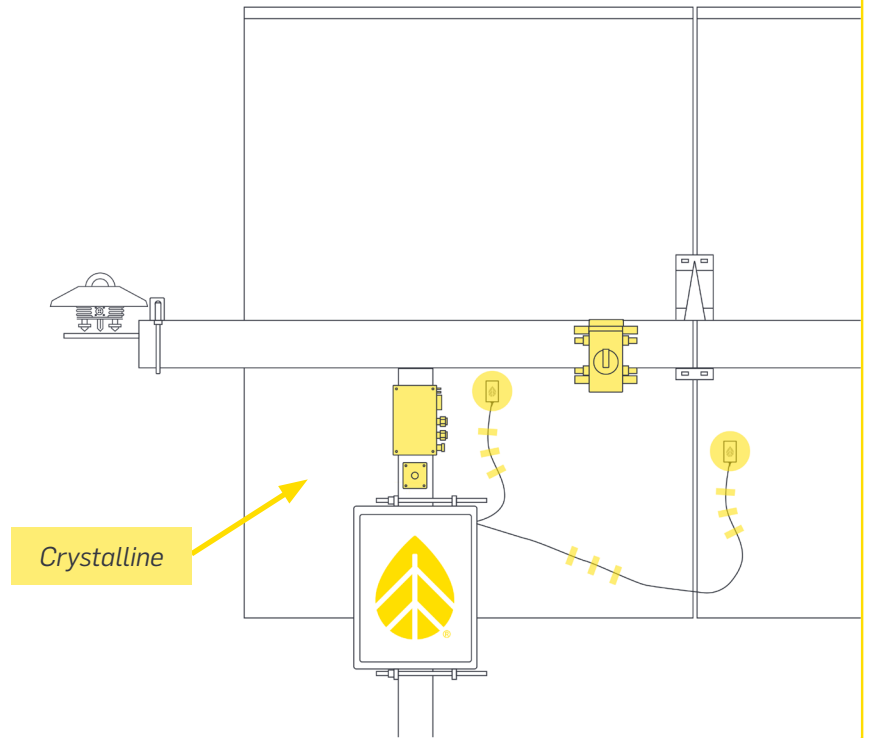
CONFIGURATIONS

KIT 19045

PULSED SOILING MEASUREMENT KIT | FULL-SIZED - CRYSTALLINE

In the Box:

- One (1) Crystalline Pulsed Soiling Module (PSM1)
- Two (2) NRG PVT1 PV Temperature Sensors
- One (1) Solar Maintenance Button
- One (1) Isolator Assembly
- Related array mounting and wiring components

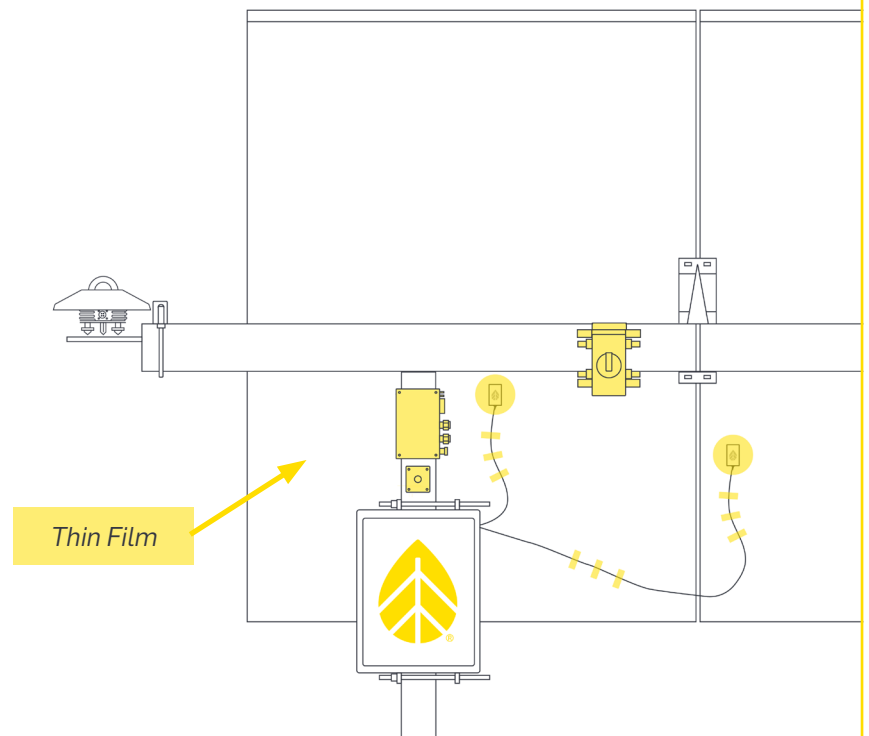


KIT 19046

PULSED SOILING MEASUREMENT KIT | FULL-SIZED - THIN FILM

In the Box:

- One (1) Thin Film Pulsed Soiling Module (PSM1)
- Two (2) NRG PVT1 PV Temperature Sensors
- One (1) Solar Maintenance Button
- One (1) Isolator Assembly
- Related array mounting and wiring components

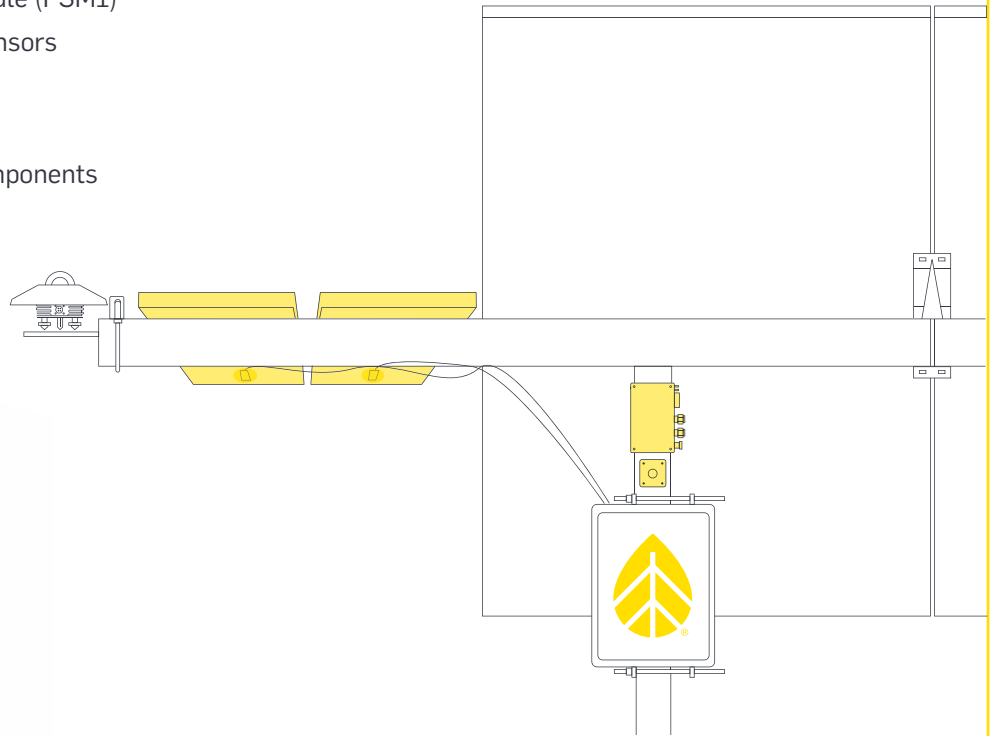
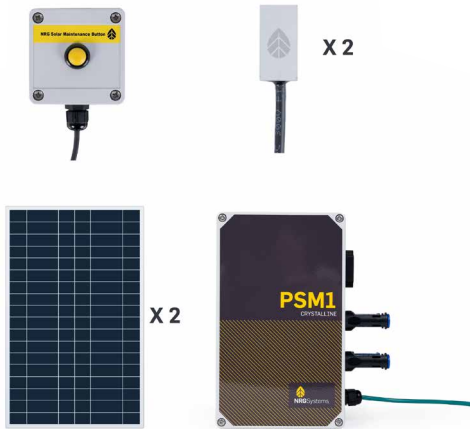


KIT 19047

PULSED SOILING MEASUREMENT KIT | 30W - ARRAY MOUNTED

In the Box:

- One (1) Crystalline Pulsed Soiling Module (PSM1)
- Two (2) NRG PVT1 PV Temperature Sensors
- One (1) Solar Maintenance Button
- Two (2) 30W PV panels
- Related array mounting and wiring components (not including PV mounting hardware)

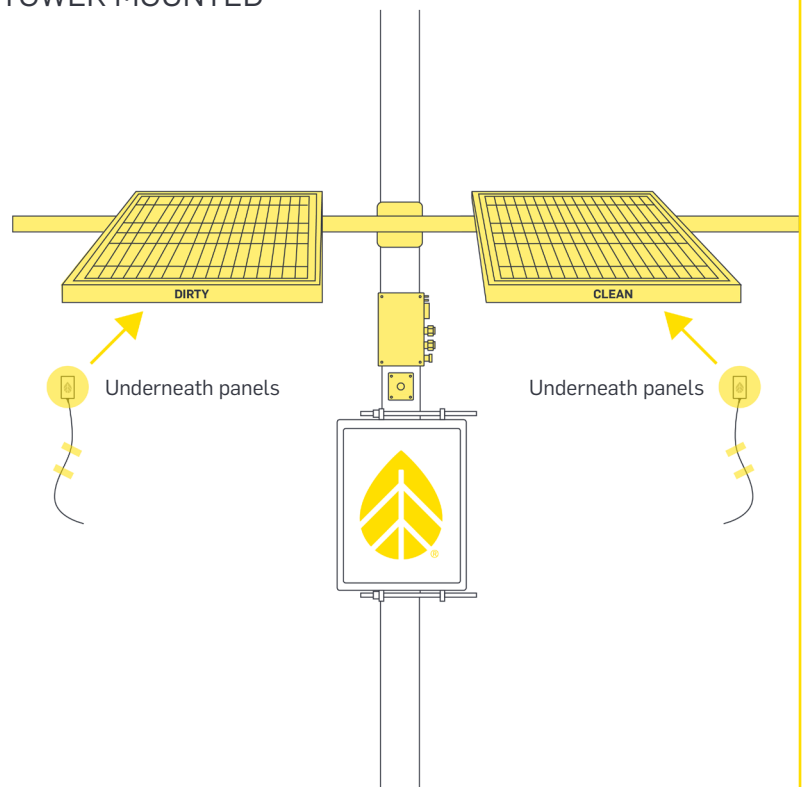


KIT 19048

PULSED SOILING MEASUREMENT KIT | 30W - TOWER MOUNTED

In the Box:

- One (1) Crystalline Pulsed Soiling Module (PSM1)
- Two (2) NRG PVT1 PV Temperature Sensors
- One (1) Solar Maintenance Button
- Two (2) 30W PV panels
- Related tower mounting and wiring components (including PV mounting hardware)



		19045 - PSMK Full-Sized - Crystalline	19046 - PSMK Full-Sized - Thin Film	19047 - PSMK 30W - Array Mounted	19048 - PSMK 30W - Tower Mounted
Description	Instrument Compatibility	LOGR-S & NRG SymphoniePRO	LOGR-S & NRG SymphoniePRO	LOGR-S & NRG SymphoniePRO	LOGR-S & NRG SymphoniePRO
	Measurement Range	VOC: 0 to 450 VDC ISC: 0 to 30 ADC	VOC: 0 to 450 VDC ISC: 0 to 5 ADC	VOC: 0 to 450 VDC ISC: 0 to 30 ADC	VOC: 0 to 450 VDC ISC: 0 to 30 ADC
Output Signal	Signal Type	VOC: 0 to 5.0 V ISC: 0 to 5.0 V	VOC: 0 to 5.0 V ISC: 0 to 5.0 V	VOC: 0 to 5.0 V ISC: 0 to 5.0 V	VOC: 0 to 5.0 V ISC: 0 to 5.0 V
	Accuracy	VOC: 1% of Reading ISC: 1% of Reading	VOC: 1% of Reading ISC: 1% of Reading	VOC: 1% of Reading ISC: 1% of Reading	VOC: 1% of Reading ISC: 1% of Reading
Power Req.	Supply Voltage	Soiling interface module: 6 VDC to 28 VDC	Soiling interface module: 6 VDC to 28 VDC	Soiling interface module: 5 VDC to 28 VDC	Soiling interface module: 5 VDC to 28 VDC
	Supply Current	Soiling interface module: 20 mA maximum	Soiling interface module: 20 mA maximum	Soiling interface module: 20 mA maximum	Soiling interface module: 20 mA maximum
Installation	Mounting	Modular mounting brackets allow mounting to NRG 3.5" dia. tubes or mounting to various solar array supports	Modular mounting brackets allow mounting to NRG 3.5" dia. tubes or mounting to various solar array supports	Modular mounting brackets allow mounting to NRG 3.5" dia. tubes or mounting to various solar array supports	Modular mounting brackets allow mounting to NRG 3.5" dia. tubes or mounting to various solar array supports
	Wiring	MC4 Connectors for Solar 8 Pin Logger connector Grounding cable with grounding screw	MC4 Connectors: See manual for details	MC4 Connectors: See manual for details	MC4 Connectors: See manual for details
Environmental	Operating Temperature Range	Soiling Interface Module: -40 °C to +65 °C PV temperature sensor: -40 °C to +105 °C	Soiling Interface Module: -40 °C to +65 °C PV temperature sensor: -40 °C to +105 °C	Soiling Interface Module: -40 °C to +65 °C PV temperature sensor: -40 °C to +105 °C	Soiling Interface Module: -40 °C to +65 °C PV temperature sensor: -40 °C to +105 °C
	Operating Humidity Range	0 to 100% Corrosion resistant, UV resistant	0 to 100% Corrosion resistant, UV resistant	0 to 100% Corrosion resistant, UV resistant	0 to 100% Corrosion resistant, UV resistant
	IP Rating	IP 65	IP 65	IP 65	IP 65
	Electrical	EN 61000-4-2 ESD	EN 61000-4-2 ESD	EN 61000-4-2 ESD	EN 61000-4-2 ESD
	Compliance	CE	CE	CE	CE

For more information:

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ISO 9001: 2015 Certified
ISO 14001:2015 Self-Certified

