

## 1. In-Field Diagnostics

An LED status indicator allows on-site technicians to verify the sensor is powered, connected, and communicating.

## 2. Remote Diagnostics

The SR300 provides alerts for internal humidity, leak detection, heater status, and tilt changes, helping to maintain a robust and healthy sensor network.

## 3. Calibrated Tilt Sensor

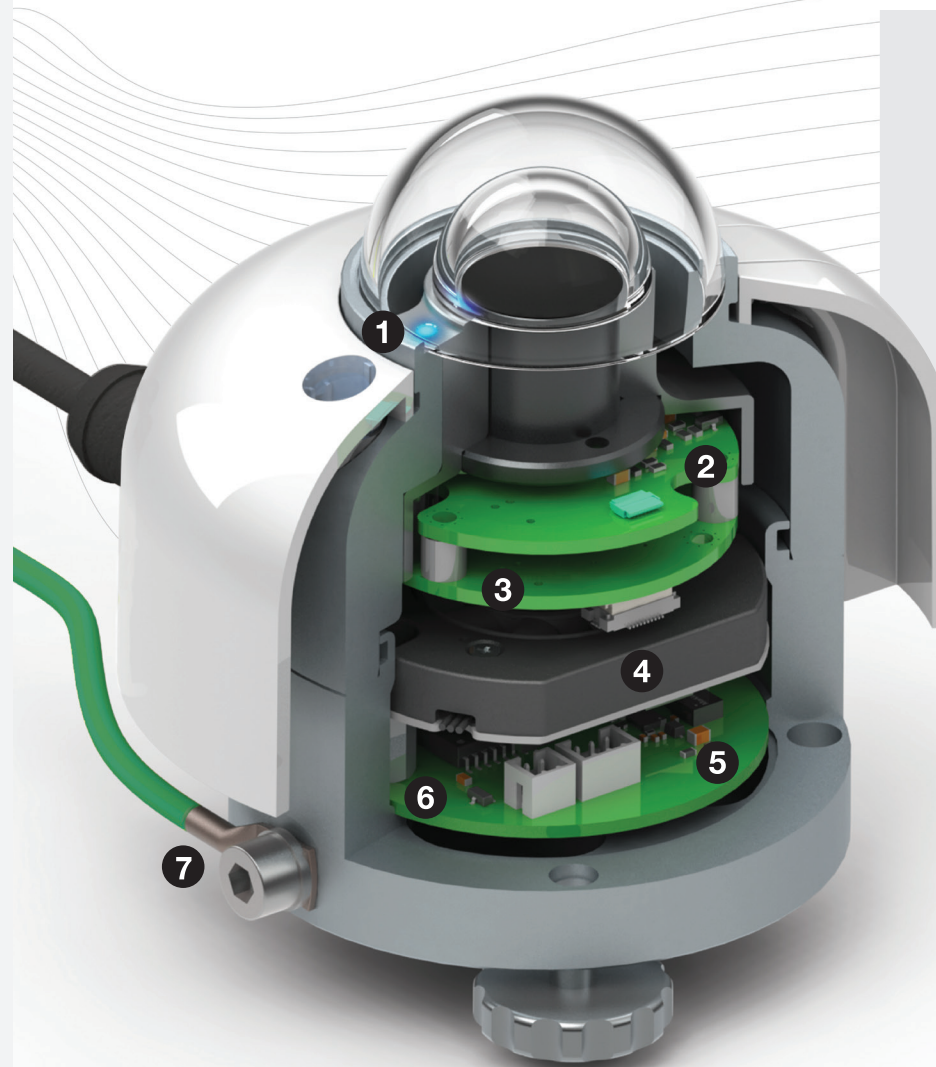
The SR300 is the first Class A pyranometer that provides calibrated 3-axis tilt data for remote monitoring of tracker or fixed-tilt installations.

## 4. Internal Ventilation & Heating

The integrated heater and ventilator efficiently mitigate dew and frost while outperforming traditional external ventilation units.

## 5. RS-485 Isolation

The integrated galvanic isolation protects the internal communication interface, while enhancing the flexibility and reliability of your RS-485 network.



**DP01 Dome Protector  
Included**

## 6. Enhanced Surge Protection

The SR300 offers industrial-level immunity to protect against lightning strikes and other surge events. It includes integrated Level 2 surge protection (up to 1 kV), which can be upgraded to Level 4 (up to 4 kV) with an optional external surge protection device.

## 7. External Grounding Lug

Together with the included grounding wire, this facilitates local grounding of the pyranometer housing to quickly dissipate surge currents.

## Performance

ISO 9060:2018 Classification	Spectrally Flat Class A (Secondary Standard)
Calibration Uncertainty	$< 1.2\%$ ( $k = 2$ )
Spectral Range	285 to 3000 nm
Temperature Response	$< \pm 0.4\%$ (-30 to +50°C)
Zero Offset A	$< 2 \text{ W/m}^2$
Zero Offset B	$< \pm 2 \text{ W/m}^2$
Tilt Measurement Uncertainty	$\pm 1^\circ$ (0 to 180°)

## Power

Operating Voltage	8 to 30 VDC
Power Consumption (Ventilator ON, Heater ON)	$< 3 \text{ W}$
Power Consumption (Ventilator ON, Heater OFF)	$< 1 \text{ W}$
Power Consumption (Ventilator OFF, Heater OFF)	$< 0.5 \text{ W}$

## Rated Operating Conditions

Operating Temperature Range	-40 to +80°C
-----------------------------	--------------

## Output

Digital Output	Modbus RS-485
----------------	---------------

## Cable Length Options

5 m (16.4 ft)
10 m (32.8 ft)
20 m (65.6 ft)
30 m (98.4 ft)
50 m (164 ft)

## Common Accessories



### PID02 Pyranometer Insulation Disc

Enhances surge protection by electrically isolating the pyranometer from its mounting structure



### SPD01 Surge Protection Device

Upgrades the surge immunity for up to 3 industrial pyranometers to IEC 61000-4-5 Level 4 (up to 4 kV)



If you'd like to learn more, please visit our website at [HuksefluxUSA.com](https://www.huksefluxusa.com) or email us at [sales@huksefluxusa.com](mailto:sales@huksefluxusa.com)