

Deno Sensor Specifications



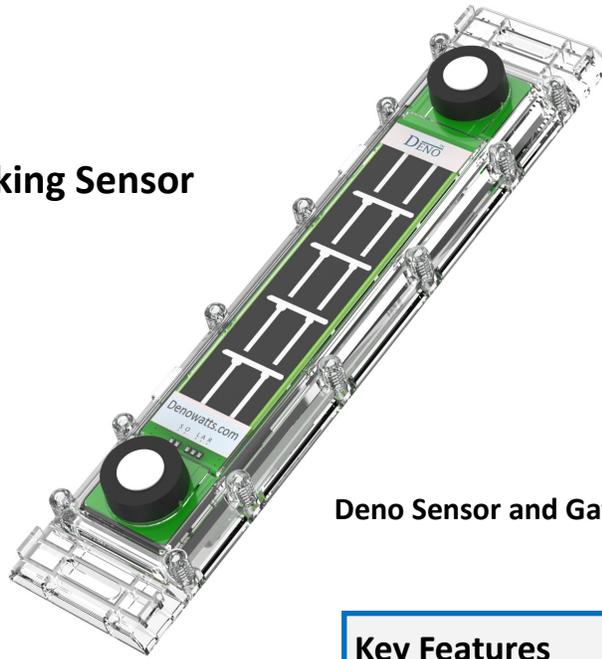
Solar Performance Benchmarking Sensor

Introduction

Solar asset managers and owners have struggled with costly sensors, complex data analysis, and inconsistent benchmarking.

The Deno sensor is a comprehensive solar performance measurement device. The Deno is self-powered and communicates wirelessly, allowing for simple, low-cost installations. About the size of a TV remote, the Deno includes two Plane of Array (POA) pyranometers and a cell temperature sensor. Optional Global Horizontal Irradiance (GHI) and Back of Module (BOM) temperature sensors may be configured with the Deno.

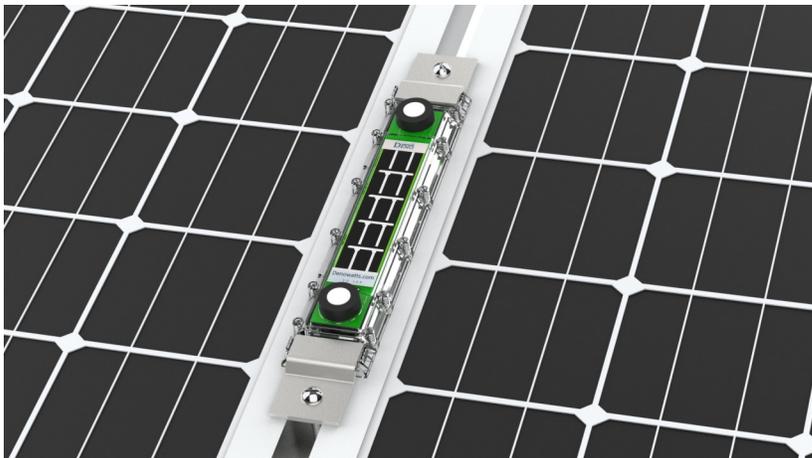
Designed to communicate with any monitoring company via Modbus TCP/IP or API, the Deno sensor replaces traditional weather stations on commercial and utility-scale solar assets. An embedded microprocessor computes high-resolution simulated energy data, Denowatts—the basis for a new generation of comparative analytics and Business Intelligence.



Deno Sensor and Gateway

Key Features

- ✓ Compact and streamlined design fits between solar modules
- ✓ 100% self-powered by energy harvesting
- ✓ Powerful 900 MHz radio transmits over 1/4 mi line of sight across any solar array
- ✓ Dual POA a-Si pyranometers closely match Secondary Standard sensors
- ✓ Module temperature data generated by sensor and embedded simulation
- ✓ Simulated energy value (Denowatts kWh) processed on the sensor
- ✓ High resolution data samples every 5-seconds with 1-minute records are standard during daytime conditions
- ✓ Cumulative irradiance and Denowatts values are reported to ensure no lost data during power/communication outages
- ✓ Remotely managed and configurable
- ✓ Integrates with any monitoring service via Modbus TCP/IP or API
- ✓ Calibration verification to a Secondary Standard pyranometer under outdoor conditions is standard for each Deno sensor



Learn More at Denowatts.com

