

## Solar Irradiance Kwense – A01 Compact Weather Sensor



### Overview

The Sourayan Kwense–Advanced sensor is designed for kW Solar Power Plants, offering continuous measurement of Solar Radiation, Air Temperature, Relative Humidity, Barometric Pressure, and Module Temperature, with optional Wind Speed and Wind Direction. Ideal for rooftop solar monitoring, it ensures accuracy, long-term stability, and low power consumption, making it suitable for remote and harsh environments. The sensor features inbuilt roll and tilt angles for improved precision and transmits data via MODBUS 485 for easy integration with third-party devices.

### Features:

#### Best Compliance with industrial standard **IEC**

Adheres to IEC 61724-1:2021

- Every sensor is individually calibrated and comes with a calibration certificate.
- Calibration certificate traceable to NABL accredited lab.
- Specifically designed for rooftop solar power plant.
- wide input power from 9V to 32V DC.

#### Best Accuracy and Precise Data



- First in class with roll and tilt angle MODBUS 485 output.
- Best in Class Accuracy for rooftop applications.
- Low power consumption.
- Outdoor application.
- Available in different packages to suite customer requirement

# Compact Weather Sensor

## Complied Specifications:

*Solar Radiation Sensor*

*Module Temperature Sensor*

*Air Temperature Sensor*

*Relative Humidity Sensor*

*Barometric Pressure Sensor*

Type	Silicon Type
Irradiance Range	0 to 2000 W/m <sup>2</sup>
Spectral Range	360 to 1100 nm
Uncertainty	± 3%
Resolution	1 W/m <sup>2</sup>
Range	-40° to 150°C
Accuracy	± 0.15°C
Tolerance	Class AA (T)
Resolution	0.01°C
Range	-40° to 85°C
Accuracy	± 0.5°C
Resolution	0.01°C
Range	0 to 100% RH
Accuracy	± 3% standard
Resolution	0.01% RH
Range	300 to 1100hPa
Accuracy	±1hPa

## Compact Weather Sensor

### General Information:

Operating Range	-20° to +70°C
Protection Class	IP65
Power Requirement	Voltage: 9 to 32V DC, Current: <500mA,
Protection	ESD: 8KV; EFT: 2KV; Surge: 1KV
Output	MODBUS 485

### Ordering Info:

Description	Model No.
Kwense-A01	Silicon type irradiation, with MODBUS 485 output and 10 mtrs cable.
Kwense-A02	Silicon type irradiation, and Module temperature (3 mtrs cable) with MODBUS 485 output and 10 mtrs cable.
Kwense-A03	Silicon type irradiation, Module temperature (3 mtrs cable), Air Temperature, Relative Humidity and Barometric pressure with MODBUS 485 output and 10 mtrs cable.

*Specifications may be subject to change without prior notice.*

## CONTACT US