

Weather Station Hardware Suite

AlsoEnergy's vertically-integrated, edge-to-cloud platform includes a weather station to provide direct access to actual site conditions through integrated hardware. The data from the weather sensors is transmitted to PowerTrack, AlsoEnergy's flagship cloud-based application for monitoring, managing, and optimizing energy, to provide insights into site conditions and expected, weather-adjusted performance information.

Anemometer: Wind Speed & Direction



- Rugged components stand up to hurricane-force winds
- Includes sealed stainless-steel bearings for long life
- Digital filtering, with time constant applied to wind direction measurements

Pyranometer: Solar Irradiance



- Silicon and thermopile models available

Temperature Sensors

- BAPI outdoor temperature sensors
- BAPI panel temperature sensors
- Quick-response sensor
- Well-vented
- Watertight enclosure



Weather Station Specifications (Standard Model)

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|-----------------------|---|
| Ambient temperature | -20° to 120°F (±1.08°F) |
| | -29° to 49°C (±0.6°C) RTD sensor with 4-20mA analog transmitter |
| Module temperature | -20° to 120°F (±1.28°F) |
| | -47° to 67°C (±0.71°C) RTD sensor with 4-20mA analog transmitter |
| Wind speed | 1 to 200 mph, greater of ±2 mph or ±5% |
| Wind direction | 0° to 360°, ±7° |
| Pyranometer | 0 - 1,750 W/m ² with less than 1% non-linearity ± 5% calibration uncertainty Less than 2% per year long term stability |
| Protocol | Modbus RS-485 2 wire + ground |
| Power | 24 VDC 1.2 Watts |
| Operating temperature | -40°C to 80°C |
| Relative humidity | Up to 95% non-condensing |
| Enclosure type | NEMA 4 |