



PROFESSIONAL SOLAR MONITORING SYSTEMS

HEYDAY MAX PRO WEATHER STATION

Integrates cutting-edge technology with user-friendly features. Highly customizable and compatible with different SCADA applications and hardware platforms. preconfigured for easy startup and commissioning with support from Heyday's experienced engineering team.

— OUR TECHNOLOGY • YOUR SUCCESS —



IEC 61724-1
PV monitoring standard



SCADA Ready
Modbus MQTT
OPC-UA



Solar Forecasting
InstaCast
HourCast
DayCast



Global Reach
India, Middle East
Asia, Africa



Developer & EPC
HourCast

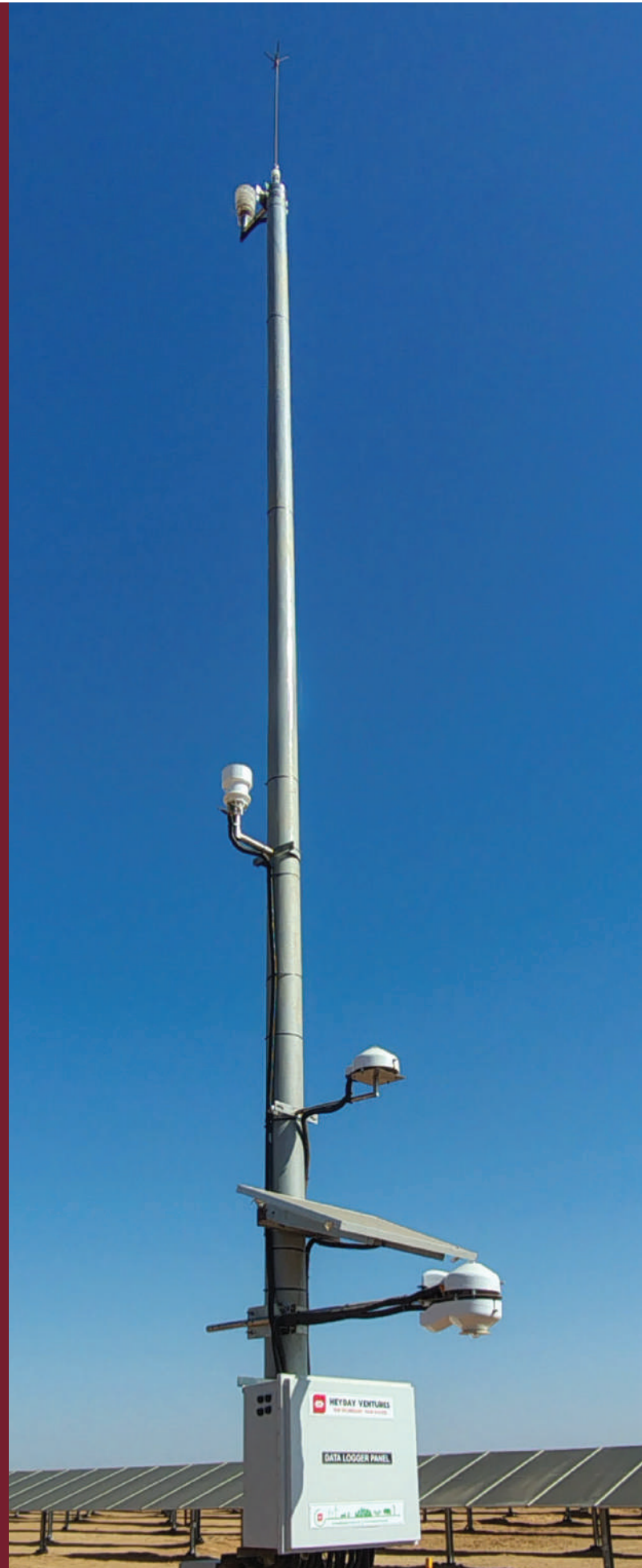


Kipp & Zonen Partner
ISO 9060 Class A
Sensors

OUR PRODUCT LINES

Weather Monitoring
Solar Forecasting

Solar SCADA
PV Analyzer



**WEATHER MONITORING STATIONS**

- Supports a wide variety of serial communication-based sensors.
- Battery back-up power at 12VDC 42Ah / 65Ah / 100Ah.
- Utility power input support (120 / 240VAC).
- Scalability of I/O functions (RTD, DI, DO, AI, & AO).
- Web server for remote access over LAN or WAN networks.
- Optional email notifications & FTP service.
- Optional local machine interface (HMI).

SMP3 PYRANOMETER

- ISO 9060 spectrally flat Class C.
- No change of desiccant for 10 years.
- Spectral range 300 to 2800 nm.
- Non-stability (change/year) < 1%.
- Operating temperature range -40 °C to +80 °C.
- RS-485 Modbus®, 0-1V, 4-20mA communication.
- 5-year warranty.

SMP 10X PYRANOMETER

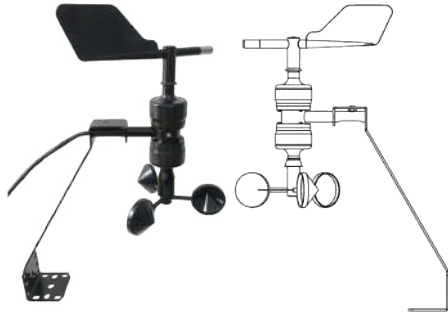
- ISO 9060 spectrally flat Class A.
- No change of desiccant for 10 years.
- Spectral range 285 to 2800 nm.
- Non-stability (change/year) < 0.5%.
- Operating temperature range -40 °C to +70 °C.
- RS-485 Modbus® communication.
- 5-year warranty.

**RAZON+**

- RaZON+ All-in-one solar measurement system.
- Measures – Direct normal irradiance (DNI), Diffuse horizontal irradiance (DHI) & sunshine duration.
- Integrated pyrliometer (PHI) for DNI and shaded pyranometer (PR1) for DHI measurement.
- GPS receiver for precise time, location, and sun-position data.
- Maintenance-free gear-drive sun tracker for reliable remote operation.
- RS-485 Modbus® communication.

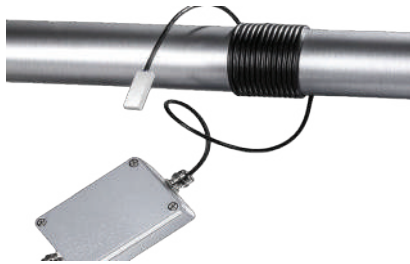
**ANEMOMETERS (Wind Speed & Wind Direction)**

- Data Ultrasonic Measurement Technology: No moving parts, zero maintenance, high durability.
- Wide Measuring Range: Wind Speed: 0-75 m/s
Wind Direction: 0°-360°.
- High Accuracy: Wind Speed $\pm 1\%$, Wind Direction $\pm 1^\circ$.
- Environmental Resistance: IP66-rated ASA body resists UV Salt fog, and corrosion.



ANEMOMETERS (Wind Speed & Wind Direction) **HEYSense**

- High accuracy, wide measurement range, and low start threshold.
- Supports IEC 61724-1 PV performance monitoring needs.
- Robust, weatherproof construction with corrosion-resistant materials.
- Low power consumption for continuous remote monitoring.
- Industry-standard outputs available as option (pulse, 4–20 mA, voltage).



MODULE TEMPERATURE SENSOR **HEYSense**

The HS-MTS0012 / HS-MTS0010 module temperature sensor is a highly accurate device which measures the temperature back of the solar panels.

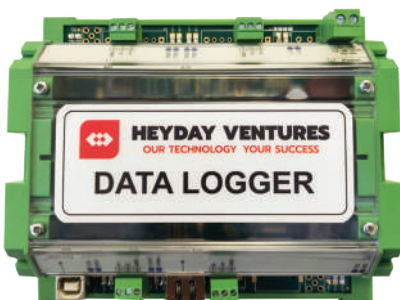
Parameters	Specifications
Power Supply	10 to 28 V DC
Signal Output	RS485
Range	-50 to + 100°C
Accuracy	Class A ($\pm (0.15 + 0.002t)^{\circ}\text{C}$)



AMBIENT TEMPERATURE SENSOR **HEYSense**

Professional and intelligent measuring sensors with a digital interface for environmental and industrial applications such as PV plants.

Parameters	Temperature	Humidity	Pressure
Range	-40-100 deg C	0-100% RH	10-115 kPa, (100-1150hPa)
Resolution	0.01°C	0.10%RH	0.01hPa
Accuracy	$\pm 0.2^{\circ}\text{C}$	$\pm 1\% \text{RH}$	$\pm 0.2 \text{hPa}$
Working Principle	RTD (pt1000)	Capacitance	Digital Barometer



DATA LOGGER - HS-DL **HEYSense**

- Real-time clock with NTP synchronization.
- Supports Modbus RTU, Modbus TCP/IP, MQTT, M-Bus & FTP.
- 8GB microSD card for local data storage.
- 6 analog inputs (Current/Voltage/PT100/PT1000).
- Remote firmware upgrade.
- Secure FTP (CSV export).
- DIN rail mountable, compact & rugged build.



DATA LOGGER -HS-DL PRO **HEYSense**

- Datalogger with timestamp of records (RTC, Real Time Clock).
- Ethernet, USB, RS232, RS485 communication.
- Galvani c isolation between power supply and interfaces.
- Remote configuration and updates through GSM/GPRS or Ethernet Port.
- Protocols Modbus RTU, ModbusTCP/IP, ICMP, UDP, TCP DHCP,PPP, ARP, IEC60870-5-104:2000.
- 4 analog inputs.



SOILING STATION



The HS-DUST offers an advanced and intelligent solution for monitoring soiling on solar PV panels. It's designed specifically for solar power plants to help optimize energy production and maintenance planning.

Parameters	Specifications
Input Voltage	12-24 VDC / Solar Power Supported
Communication Protocols	MODBUS RTU, MODBUS TCP
Sensor Inputs	ISC, VOC & Back Temperature



HS-DL EDGE



- Modular architecture to easily add cellular, Wi-Fi, serial or USB connectivity
- Easily add up to 10 I/O modules including: analog I/O, universal input, relays and PID control
- Powerful networking at the core including: routing, NAT, VPN and Stateful firewall
- Gateways can be upgraded to support protocol conversion, advanced automation features and Crimson Control (IEC 61131-3)



HS-DL X



- Industry-leading protocol conversion
- Communicate with over 300 protocols
- Easily convert between serial, and Ethernet devices
- Manage multi-vendor environments with ease
- Optional expansion port for select add-on network modules

ENVIRONMENTAL

- Operating Temperature: -20°C to 70°C
- Storage Temperature: -20°C to 70°C
- Operating Humidity: 0 to 95% RH, non-condensing



PV ANALYZER



The smallest, lightest and fastest I-V curve tracer on the market, now with bifacial module measurement capability and up to 1,500V and 35A.

Drastically reduce the time spent on O&M, commissioning, and quality control with Entec Solar's E-1500 I-V curve tracer.

E-1500 SPECIFICATIONS

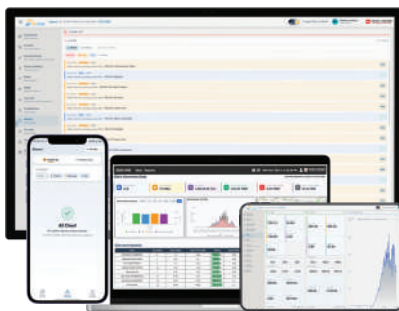
Input voltage range	0-1500V
Input Current range	0.1-35A
Precision	± 0.3% ± 2 digits (voltage and current) ± 0.5% ± 0.1W (power)
Resolution	22.5mV 0.5mA
Measurement time	30-200ms (typical)



SKY INSIGHT™

— **Reuniwatt** —

- Continuous 24/7 all-sky monitoring for ultra-local cloud detection and solar irradiance insights. The Sky InSight™ is a patented infra-red all-sky imager developed by Reuniwatt for real-time tracking and forecasting of cloud cover and related sky conditions — day and night.
- Reliable cloud and solar forecasting for energy & meteorological applications Complete solution combining hardware, software & data services Ideal for solar power plants, weather monitoring & research institutes



SUN-SCADA



- Real-time telemetry, control, and analytics for utility-scale PV.
- Seamless integration with inverters, weather stations, and state grid portals.
- Hybrid ML forecasting for predictive day-ahead and live dispatch.
- IEC 62443 cybersecurity with mobile-first biometric access.



SUN-CMS



- Unified interface for centralized, multi-plant portfolio management.
- Aggregated reporting across diverse sites, OEMs, and regions.
- Automated KPI tracking and real-time SLA compliance dashboards.
- Scalable database architecture for MW to multi-GW portfolios.



SUN-EMS



- Intelligent dispatch for hybrid PV and battery storage systems.
- Automated load balancing via site-trained predictive models.
- Multi-layered authorization for admins, operators, and vendors.
- Edge computing integration for low-latency, resilient automation.

HOW IT WORKS



Sensors



Solar + BESS
SCADA



PPC



Cloud



Dashboard



HEYDAY VENTURES

OUR TECHNOLOGY. YOUR SUCCESS

TECHNOLOGY PARTNERS



OUR VALUABLE CLIENTS



and Many More....

GLOBLE REACH. LOCAL SUPPORT.

Power a sustainable tomorrow, together.



Email: sales@heydayventures.co.in



Phone: 1800 890 8577



Website: www.heyday-ventures.com



Works: Heyday Ventures Part B, Back Side, ground floor, Plot no. 4, KH-132, Neb Sarai, New Delhi - 110068, India



Corporate Office: 31/25 - 31/30 | 33rd Floor, Gold Tower, Wave One, Noida, Gautam Buddha Nagar Uttar Pradesh - 201301, India