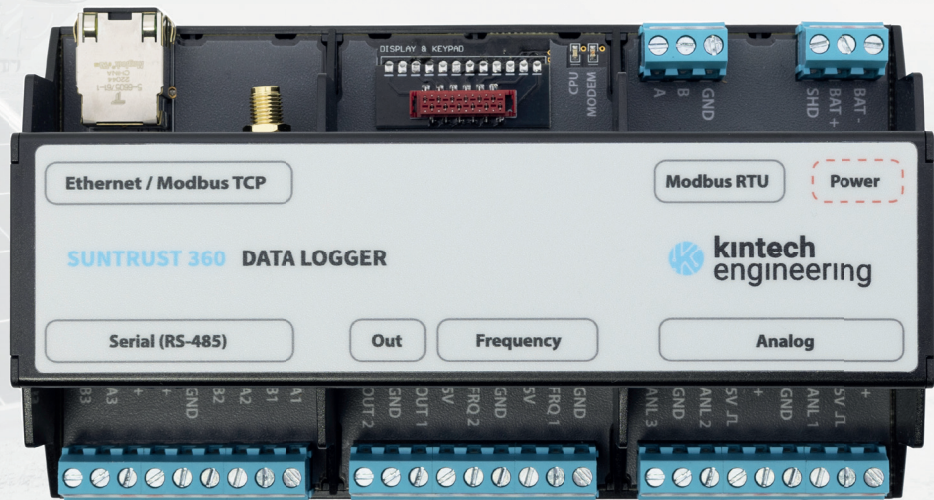


SUNTRUST 360



**PURPOSELY
ENGINEERED**

**FOR SOLAR RESOURCE ASSESSMENT
AND INDUSTRIAL PV MONITORING**

If you are looking for a **data logger to monitor your solar PV farm**, look no further.

The Suntrust 360 data logger is designed and engineered by Kintech Engineering and brings our advanced and well proven data logger technology to the solar measurement segment.

The Suntrust 360 is a purpose-built data logger for both solar resource assessment as well as solar PV monitoring (full compliance with IEC-61724-1) and easily integrates into industry SCADA systems.

**DESIGNED AND
MANUFACTURED BY KINTECH
ENGINEERING**



MODBUS VIA TCP / RTU

Full connectivity with
SCADA systems



REMOTE SETUP

Internal GSM
(3G & 4G) modem



DIGITAL SENSORS

Directly compatible with
digital pyranometers

SUNTRUST 360



Suntrust 360
inside

BENEFITS AT A GLANCE

- Directly compatible with digital pyranometers and soiling monitoring systems in addition to all PV industry standard instruments including radiometers, module temperature, wind and precipitation.
- Full connectivity with SCADA systems (up to three simultaneous Modbus connections both TCP and RTU).
- Rugged design for added protection and durability.
- Three integrated RS485 buses (connect up to 24 sensors with digital output).
- Scalable solution with channel expansion available.
- Data-logging function in its industrial grade memory card with 20-year storage capacity.
- 2 outputs for alarms and actuators
- Internal GSM modem (2G/3G/4G)
- Remote full management capabilities including configuration of sensors and TCP parameters, download of historical data and real time supervision
- Connectivity through the Atlas Mobile app
- Easy setup and sensor configurations via Atlas.
- Effective technical support from our experienced team from our ten offices across the world

QUICK DIN RAIL MOUNT

The clever DIN-rail mounting system make it easier for operators to perform field maintenance and makes wiring easier

THE SIZE MATTERS

The small dimensions of the Suntrust 360 means that it takes up very little space and will fit into most smaller cabinets.

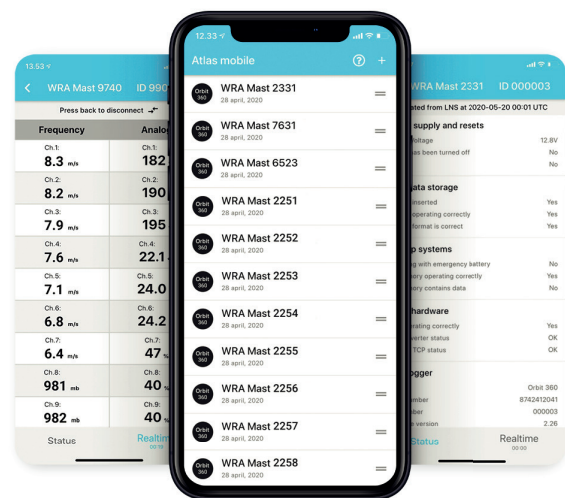
APPLICATIONS

Solar Resource Assessment, Industrial Solar PV (photovoltaic) monitoring

INDUSTRY FIRST
REMOTE UPGRADE
FEATURE

ATLAS MOBILE

With Atlas Mobile you can get real-time sensor output, external battery voltage, backup systems status and logger condition directly to your phone.



SPECIFICATIONS SUNTRUST 360

| | | | |
|------------------------|---|--|---|
| INPUTS | Total frequency channels available: | up to 16 | 2 physical frequency channels and 14 extra channels. The extra channels are exclusively for digital sensors. 16 bit resolution. |
| | Total analog channels available: | up to 23 | 3 physical analog channels and 20 extra channels for digital sensors. 12 bit resolution |
| | Calculated channels: | up to Infinite | Infinite calculated channels through Python scripts on Atlas software |
| OUTPUTS | 5V | 2 | One for every physical frequency channel |
| | + | 4 | Battery voltage |
| | out | 2 | Pulsating battery voltage |
| | 5 | 2 | Pulsating 5V |
| PROTOCOLS | RS485 - Logger as master | 3 | For smart sensors with RS485 output (device specific and modbus protocols). |
| | Integrated Modbus TCP (2 Ethernet ports) -Logger as slave | 1 | Two simultaneous Modbus TCP connections |
| | Integrated Modbus RTU -Logger as slave | 1 | RS485 |
| POWER SUPPLY | External | 5...30 VDC | Reverse polarity protection |
| DATA COLLECTION | Sampling rate | 1 Hz | Frequency measurement according to IEC-61400-12-1 |
| | Recording interval | 1, 5 or 10 minutes | User configurable |
| | Recorded values | Average, st. dev., min., max. for all channels | |
| | Gust | 1...3 sec. precision 0.05 m/s | |
| DATA STORAGE | Removable memory | SD / MMC | Storage capacity up to 20 years |
| | Internal memory | EEPROM | Storage capacity up to 100 days |
| AVAILABLE 24/7 | Telemetry | GSM / GPRS | |
| | Local | Automatic daily email from logger | |
| | Email | Removable SD card, FTP | |
| AVAILABLE 24/7 | Data logger management software (Desktop) | Atlas Enterprise, Atlas Professional, Atlas Free | |
| | Atlas Mobile (Mobile app) | Compatible with both IOs and Android. Available on App store and Google Play store | |
| SECURITY | Data encryption | All data are encrypted and password protected (config.) | |
| | Digital signature | All datasets are digitally signed with GPS coordinates | |
| | Access logging | Remote connections, keypad access with date & time, power on reset | |
| USER INTERFACE | Optional Display | LCD with 64x128 resolution | |
| | Optional Keypad | Robust 5 buttons keypad | |
| | Slots | 2 | SIM Card, MMC memory card |
| | LEDs | 2 | Modem, CPU |
| OUTPUTS | Dimensions | 162 mm x 90 mm x 62.5 mm | |
| | Weight | 0.26 kg | |
| | Materials | Polycarbonated plastic | |
| | Mounting | DIN Rail /Panel mount | |

ATLAS

The Suntrust 360 data logger is **fully compatible** with our existing software platform for data logger management.



While Atlas automatically downloads and keeps track of the data from all your met masts, including site pictures and installation reports, you have unlimited remote access to your entire fleet of Suntrust 360 data loggers and can perform real-time connections 24/7.

KEY BENEFITS FROM USING ATLAS

COMPREHENSIVE
**USER
CONTROL**

- Automated data downloads and instantaneous data backup on client server.
- Real-time connections available 24/7 including access to live hardware condition monitoring.
- Intelligent sensor status flags. Essential for immediate field deployment in case of sensor malfunctions.
- Easy setup of alarms and triggers for pyranometer heating or ventilation units.
- Intuitive dashboard listing all your data loggers with quick access to logger and sensor status and data availability.
- Automatic software updates.