

AURORA SYSTEM MONITOR

GENERAL SPECIFICATIONS

The Aurora System Monitor is the “lite” version of the Aurora Plant Manager offering a basic set of features at the lowest price possible for a monitoring turnkey solution. This high-performance data collection and communication system is ideal for small to medium commercial PV plant applications. The included Aurora Logger Commercial can monitor and provide data management for up to ten Power-One string inverters and one weather station.

Aurora System Monitor models include:

- Aurora Logger Commercial
- RS-485 Surge Protection
- Power supply
- Painted steel NEMA 4/IP65 enclosure

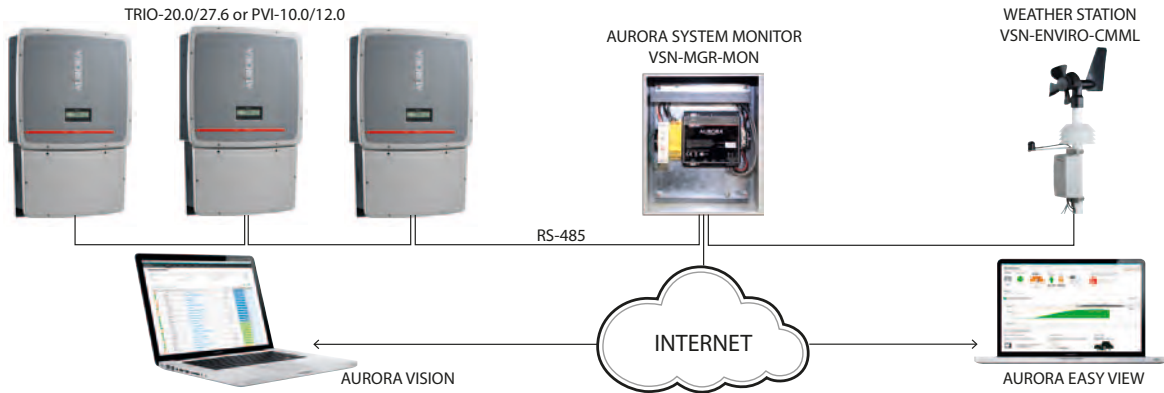


Features



- Collects data and uploads information over the Internet in near real-time to the Aurora Vision platform
- Support for 10 Power-One string inverters and a weather station
- Remote management through Aurora EasyView
- Includes free access to Aurora EasyView*

*For the duration of the inverter warranty

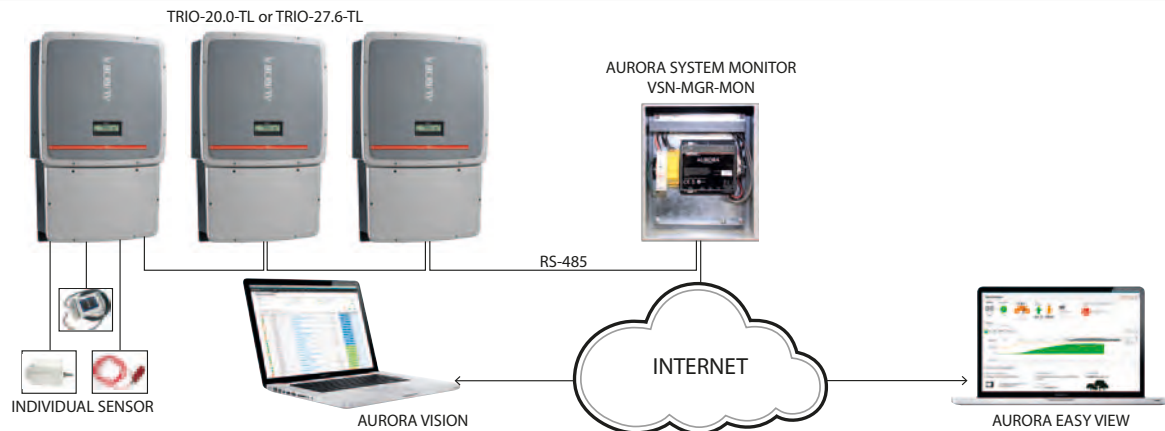
COMMERCIAL APPLICATION WITH AURORA SYSTEM MONITOR USING A STAND ALONE WEATHER STATION









STAND ALONE WEATHER STATION ACCESSORIES

VSN-ENVIRO-ENTRY	Weather Station with sensors: ambient, panel, global irradiance	
VSN-ENVIRO-CMML	Weather Station with sensors: ambient, panel, global irradiance, plane of array irradiance, wind speed & direction	

COMMERCIAL APPLICATION WITH AURORA SYSTEM MONITOR USING INDIVIDUAL WEATHER SENSOR



INDIVIDUAL WEATHER SENSOR ACCESSORIES

PVI-AEC-IRR	Irradiance reference cell 0 - 10 V	
PVI-AEC-IRR-T	Irradiance reference cell 0 - 10 V & back of reference cell temperature	
PVI-AEC-IRR-T(30)	Irradiance reference cell 0 - 10 V & back of reference cell temperature with 30 m cable	
PVI-AEC-T100-ADH	PT-100 Self-Adhesive back of panel temperature sensor	
PVI-AEC-T1000-BOX	Ambient temperature sensor with IP65 enclosure	
PVI-AEC-T100-24V	Convert PT-100 0 to 10 V, requires 24 V supply	
PVI-AEC-T1000-Integrated	PT-100 temperature Sensor with integrated converter 0 to 10 V	
PVI-AEC-WIND-COMPACT	Wind Speed Sensor	

PARAMETER	AURORA SYSTEM MONITOR (VSN-MGR-MON)
Platform	
Devices Supported	10 Power-One String Inverters & 1 Weather Station
Monitoring	Inverter Direct, Environmental Sensors
Inverter Control	None
Communication Interfaces	
Serial Port Interface	(2) RS-485 + (1) RS-232
RS-485 Port 1 Configuration	Surge Protected & Configurable to Modbus or Aurora Protocol support
RS-485 Port 2 Configuration	Surge Protected & Configurable to Modbus or Aurora Protocol support
Maximum Devices per Serial Port	11 devices, depending on poll rate and configuration
Fieldbus Cable	RS-485 shielded twisted Pair. Recommend Belden # 1120A cable or # 3106A for 3 conductors
Ethernet Port 0	Firewall protected Ethernet WAN port for internet connection
Ethernet Port 1	Local LAN with static IP address
Ethernet Connections	RJ-45 Ethernet 10/100 base-T (LAN/WAN)
Communication Protocols	
Plant Fieldbus Protocols	Aurora, Modbus RTU, SunSpec
LAN/WAN Protocols	HTTP, DHCP, SSL, SSH, XML
Data Logging Specifications	
Data Sampling Rate	High frequency data sampling - 1 minute average
Logging	Real time power values at 1 to 7 minute configurable intervals
Local Storage	Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter than 7-minute)
Upgradeability	Field upgradable over the Internet or locally via USB memory stick
Communications Surge Protection	
Replaceable Cartridge	Citel DLAM-06D3
Power Supply	
DC Power Supply Input	90 VAC to 264 VAC (Max)
DC Power Supply Output	15VDC, 1.34A
Environmental Protection Rating	
Ambient Temperature Range	-20°C to 60°C
Environmental Protection Rating	NEMA 4
Relative Humidity	0 to 100% condensing
Mechanical Parameters	
Dimensions H x W X D	12" x 10" x 5" (.30m x .25m x .13m)
Enclosure	Painted steel
Weight	14 lbs (6.4 kg)
Mounting System	Screws through flanges
Compliance	
Safety	UL508A
Marking	cCULus / CE
Altitude	Operate below 3000m
Emission	FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emission
Immunity	EN 61000, EN55024
Telecom	N/A



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