

SOLAR MONITORING AND WEATHER STATION PRODUCT DATASHEET



The Solar Monitoring Station is an autonomous tripod-mounted data logger system, providing reliable data collection for solar resource measurements.

Station is customised to client requirements.

Applications

Suitable for solar resource assessment, solar power generation monitoring, and weather data monitoring, especially in remote locations.

Solar Irradiance Sensors

Typical configuration includes pyranometers for measuring solar irradiance (GHI x 2 or GHI and GTI plane of array), and Albedo.

Environmental Sensors

The unit is typically also equipped to monitor wind speed, wind direction, pressure, temperature, relative humidity, and rain.

Additional Features

- Tripod-mounted design for stability and easy setup.
- Comprehensive environmental monitoring for various parameters.
- Options for other sensors and soiling stations.

(02) 6672 6200
info@art-group.com.au
art-group.com.au
119-125 Quarry Rd Murwillumbah NSW 2484

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Feature	Description
Solar Monitoring Station Specifications (typical)	
Solar pyranometer	Typical 2 x Secondary Standard/Class A pyranometers (various options available including Middleton, Kipp and Zonen, EKO) & 1 x Albedo
Weather transmitter	Combined Vaisala Weather Transmitter WXT536
Soiling station	Kipp & Zonen DustIQ or dual solar modules/shunt
Logger type	Campbell Scientific to suit configuration
Communication interface	RS232 or Ethernet
Remote monitoring	4G with external antenna, or satellite
Logger enclosure	IP66 Stainless steel powder coated
Tripod material	Galvanised steel
Power	50W Solar 12V DC
Autonomy	7 days
Solar array	Adjustable tilt
Dimensions	Height: 1700mm, Tripod footprint diameter: 2970mm
Weight	130kg

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