



METER
ENVIRONMENT



ATMOS 41

THE WEATHER STATION PROBLEM

Most weather stations are cluttered, complicated, and frustrating to install and maintain. Wiring and programming all the components can be a nightmare, and finding room to mount everything can be a challenge.

All-in-one weather stations solve many of these problems, but the tradeoff is flexibility. Adding just one more sensor often requires an extra data logger, making the weather station system more complicated and more expensive.

FEATURES

- Measures 12 weather variables including: air temperature, relative humidity, vapor pressure, barometric pressure, wind speed, gust and direction, solar radiation, precipitation, lightning strike counter and distance
- Easy installation
- No moving parts
- All weather station data transmitted over a single wire
- Digital SDI-12 communication
- Connect datalogger for data capture and management
- Designed for continuous deployment in harsh climates
- No louvered radiation shield to attract bugs

SPECIFICATIONS

SOLAR RADIATION	Range: 0 to 1750 W/m ² Resolution: 1 W/m ² Accuracy: ± 5% of measurement typical
PRECIPITATION	Range: 0 to 400 mm/h Resolution: 0.017 mm Accuracy: ± 5% of measurement from 0 to 50 mm/h Polycarbonate-ABS (PC-ABS)
VAPOR PRESSURE	Range: 0 to 47 kPa Resolution: 0.01 kPa Accuracy: Varies with temperature and humidity, ±0.2 kPa typical below 40 °C
RELATIVE HUMIDITY	Range: 0 to 100% RH Resolution: 0.1% RH Accuracy: Varies with temperature and humidity, ±3% RH typical
AIR TEMP	Range: -50 to 60 °C Resolution: 0.1 °C Accuracy: ± 0.6 °C
DIMENSIONS	Diameter: 10 cm (3.94 in) Height: 34 cm (13.39 in), includes rain gauge filter
OPERATING TEMP RANGE	Minimum -50 °C Maximum: 60 °C
SUPPLY VOLTAGE	Minimum: 3.6 VDC continuous Maximum: 15.0 VDC continuous

NOTE: The ATMOS 41 weather station must be continuously powered in order to work properly.