



METER
ENVIRONMENT

ENVIRONMENTAL/ CLIMATE MONITORING



ATMOS 41

The ATMOS 41 weather station packages 12 weather sensors into a single, compact all-in-one device. It was designed for continuous deployment in harsh climates such as Africa, which means there are no moving parts to fail. Installation and maintenance have been simplified to the maximum because there's never any mechanical wear.

KEY FEATURES

- Measures air temperature, relative humidity, vapor pressure, barometric pressure, wind speed, gust and direction, solar radiation, precipitation, lightning strike counter and distance
- No moving parts
- All data transmitted over a single wire
- Detects fine-scale wind speed variations with 0.01 m/s resolution

KEY SPECS

- SOLAR RADIATION Range: 0 to 1750 W/m² Resolution: 1 W/m² 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
- HORIZONTAL WIND SPEED: Range: 0 to 30 m/s, Resolution: 0.01 m/s, Accuracy: the greater of 0.3 m/s or 3% of measurement
- 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
- OPERATING TEMP RANGE Minimum -50 °C Maximum: 60 °C
- BAROMETRIC PRESSURE Range: 50 to 110 kPa Resolution: 0.01 kPa Accuracy: ± 0.1 kPa from -10 to 50 °C, ± 0.5 kPa from -40 to 60 °C