SENSE IT
TECHNOLOGIES
MONITORING AND CONTROL SOLUTIONS



LoRaWAN 8-in-1 Weather Station

SKU: SI-LRW-WTHR-001

Monitor local weather conditions with a single outdoor weather station that measures eight key environmental parameters. Designed for long-term outdoor deployment, it provides accurate real-time weather data for agriculture, water management, environmental monitoring and industrial sites while integrating seamlessly with the Sense It monitoring platform.

OVERVIEW

The Sense It Wireless Weather Station provides a complete outdoor weather monitoring solution by combining eight essential environmental measurements into a single compact device. It continuously measures air temperature, relative humidity, wind speed, wind direction, rainfall intensity, light intensity, UV index and barometric pressure, giving organisations a comprehensive view of local weather conditions.

The weather station is well suited to agriculture, irrigation management, water resource monitoring, municipal infrastructure, environmental monitoring, mining, construction sites, research projects and industrial facilities. By providing accurate local weather information, organisations can make informed operational decisions, improve safety and respond more effectively to changing environmental conditions.

Designed for permanent outdoor installation, the unit is built to withstand harsh weather including rain, dust and prolonged sun exposure. Its integrated solar panel reduces maintenance requirements while battery backup ensures reliable operation during periods of limited sunlight. The weather station requires minimal servicing, making it suitable for remote installations where regular maintenance visits are impractical.

When connected to the Sense It monitoring platform, live and historical weather information can be viewed from any web browser or mobile device. Users can monitor trends, generate reports, create dashboards and receive automatic alerts when environmental conditions exceed configured thresholds. Weather data can also be combined with other monitored assets such as dam levels, irrigation systems, pumps, environmental sensors and industrial equipment to provide a complete operational overview.

The all-in-one design simplifies installation by eliminating the need for multiple individual sensors while delivering consistent, high-quality environmental measurements from a single mounting location. This reduces installation time, lowers maintenance costs and provides a reliable source of weather information for long-term monitoring projects.

KEY FEATURES

- Measures eight weather parameters in one device
- Monitors air temperature
- Measures relative humidity
- Measures wind speed
- Measures wind direction
- Measures rainfall intensity
- Measures light intensity
- Measures UV index

- Measures barometric pressure
- Designed for permanent outdoor installation
- Solar assisted operation reduces maintenance
- Battery backup provides reliable operation
- Suitable for harsh outdoor environments
- Supports remote monitoring through the Sense It platform
- Provides live and historical weather data
- Configurable alarm notifications
- Suitable for agricultural and industrial applications
- Quick pole-mounted installation
- Low maintenance design

TECHNICAL SPECIFICATIONS

General

- Measures air temperature humidity wind speed wind direction rainfall intensity light intensity UV index and barometric pressure
- Eight integrated environmental sensors
- Real-time weather monitoring

Performance

- Air temperature range: -40 °C to +80 °C
- Air temperature accuracy: ±0.5 °C (0 to +80 °C)
- Humidity range: 1 to 99 %RH
- Humidity accuracy: ±3 %RH (1 to 90 %RH)
- Barometric pressure range: 540 to 1100 hPa
- Barometric pressure accuracy: ±5 hPa (700 to 1100 hPa)
- Wind speed range: 0 to 50 m/s
- Wind speed accuracy: ±0.5 m/s below 5 m/s
- Wind direction range: 0 to 360°
- Wind direction accuracy: ±8°
- Light intensity range: 0 to 200000 lux
- Light intensity accuracy: ±5%
- UV index range: 0 to 16
- Rainfall intensity range: 0 to 450 mm/h
- Rainfall intensity accuracy: ±7%

Environmental

- Operating temperature: -40 °C to +60 °C with lithium batteries
- Operating humidity: 0 to 99 %RH
- Suitable for harsh outdoor environments
- IP66 enclosure

Power

- Solar-assisted operation
- Powered by three AA batteries
- Supports optional six AA external battery pack
- Typical battery life up to 2 years depending on reporting interval

Physical

- Weight: 1.5 kg

- Compact integrated weather station

Installation

- Pole mounting hardware included
- Suitable for permanent outdoor installation
- Low maintenance design

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