

u[sonic] WS7 Weather Station



Ideal for:

- Professional meteorological services
- Renewable energy, including on-and off-shore wind turbines
- Environmental engineering and building automation
- Emergency management and public safety
- Aviation and airport operations
- Outdoor club, sports and entertainment

The Perfect Weather Station to Measure Hyper-Local Conditions

Whether you're monitoring heat and humidity levels to protect individuals outdoors or measuring wind speed to determine impact to business operations, access to real-time, local weather conditions is critical. Built to withstand all types of weather and extreme environmental conditions, the u[sonic] WS7 professional grade weather station measures 7 key weather parameters in one compact sensor.



Air
Temperature



Dewpoint
Temperature



Air
Humidity



Barometric
Pressure



Global
Radiation



Wind Speed
& Direction

BENEFITS



Protect your employees, visitors and other stakeholders with real-time automated alerts for high winds and temperature



Robust technology with independent, integrated sensors and no moving parts for superior accuracy of each measurement



Built from high-quality marine-grade metal, perfect for monitoring conditions at any facility, including wind farms, oil and gas, manufacturing, mines, parks and athletic facilities and more



Innovative, compact design minimizes labor and installation costs for easy setup and maintenance

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Need more information? A subscription to Sferic Maps gets you access to 130+ layers of real-time weather and lightning data from our global networks.

Accurately Measure 7 Critical Weather Parameters

At AEM, our Lambrecht weather sensors have been helping customers monitor and mitigate weather-related risk for over 150 years. The u[sonic] family of weather sensors deliver a compact and reliable solution available for almost any application and environment.

u[sonic] WS7 Specifications

| COMPONENT | SPECIFICATION |
|-------------------------------------|--|
| Id-No. | 00.16480.001000 |
| Measuring range wind direction | 0 to 359.9° |
| Measuring range wind speed | 0.0 to 65.0 m/s |
| Measuring range air temperature | -40.0 to +70.0 °C |
| Measuring range relative humidity | 0.0 to 100.0 % |
| Measuring range barometric pressure | 300.0 to 1100.0 hPa |
| Measuring range global radiation | 0.0 to 2000 /m ² ; global radiation within the range of 285 to 3000 nm |
| Interface | RS485 / 422; NMEA 0183 SDI-12 and Modbus RTU (optional) |
| Strongest wind impact velocity | 100 m/s |
| Supply voltage | Without heating: 6 to 60 VDC With heating: 24 V AC/DC ± 20 % |
| Current consumption | Sensor: typical 50 mA at 24 VDC With heating: max 2.5 A at 24 V AC/DC |
| Housing | Seawater resistant aluminum Dimensions: Ø 199 mm; height 284 mm Protection class: IP 66, IP 67 |

Key features:

- Durable seawater resistant aluminum construction ideal for severe weather conditions
- 7 integrated sensors with no moving measuring elements
- Compact design that is easy to install and maintain
- Lamella shelter protects sensor from extreme environments
- Built-in test function notifies user of erroneous data or failure
- Electronically controlled heating device enables use in wide range of temperatures
- Compatible with a wide variety of interfaces and protocols



ASK ABOUT: RAIN[E] WEIGHING PRECIPITATION SENSOR

Combine your professional-grade weather station with our innovative rain[e] Weighing Precipitation Sensor for an even more complete view of environmental conditions.

To find out more about all of our technologies, visit aem.eco or contact us at info@aem.eco