

# Weather Backpack Mobile Weather Station



## Ideal for:

- **Industrial emissions:** Businesses need accurate and reliable data on ambient conditions to monitor emissions thresholds and environmental impact.
- **Disaster control:** A rapidly deployable dense local weather measurement network provides accurate real-time values and supports on-site disaster recovery.
- **Sport events:** Local weather monitoring is the most important factor when it comes to the safe realization of sports events.



### ASK ABOUT: MET[LOG]

The data logger met[LOG] and its integrated browser app met[APP] quickly and easily transfer weather data to your network.

## The compact, portable weather station you can use anywhere and anytime

Weather Backpack is a high-precision weather station that provides important data in meteorological research quality. Its outstanding measurement quality, reliability and durability are designed to meet the rigorous demands of scientific and governmental applications. The weather station can be stowed easily in its carrying case and transported quickly from one location to another. Since Weather Backpack is portable, even large areas can be covered.



Air Temperature



Dewpoint Temperature



Air Humidity



Barometric Pressure



Wind Speed & Direction

### BENEFITS



Provides a professional-grade automatic weather station (AWS) for temporary or short-term measurement campaigns in any conditions



Robust technology with high-end sensors and superior research-quality measurement accuracy



Built from high-quality seawater resistant metal, making it perfect for monitoring weather conditions for disaster control, sporting events or climate research



Simplified installation, with full deployment in minutes using a single cable

# Complete solution for up to 7 parameters in research quality

At AEM, our LAMBRECHT weather stations have been helping customers monitor and mitigate weather-related risk for over 150 years. Weather Backpack reliably supports you in your measurement tasks anytime and anywhere.

## Weather Backpack Specifications

COMPONENT	SPECIFICATION
Id-No.	30.00852.000001 (with u[sonic]WS7 Modbus)
Application area	Outdoor
Environmental conditions	-40...+70 °C; 0...100 % r. h.
Ethernet	10/100 BaseT; plug RJ45 shielded
Battery life	Approx. 8 days
Protection class	IP 66, IP 67
Material	Case: Polypropylene; Mast: Aluminum
Weight	Approx. 27 kg
Mast height	Approx. 3 m

### SPECIFICATIONS IN DETAIL

Wind direction	Measuring range: 0...359.9° Accuracy: < 2° (> 1 m/s) RMSE Resolution: 0.1°
Wind speed	Measuring range: 0...65 m/s Accuracy: ± 0.2 m/s RMSE (v < 10 m/s); ± 2 % RMSE (10 < v < 65 m/s) Resolution: 0.1 m/s
Air temperature	Measuring range: -40...+70 °C Accuracy: ± 0.1 K (0...60 °C); ± 0.2 K (-40...0 °C) > 2 m/s Resolution: 0.1 °C
Relative humidity	Measuring range: 0...100 % r. h. Accuracy: typically ± 1.5 % (0...80 %); ± 2 % (> 80 %) Resolution: 0.1 %
Air pressure	Measuring range: 300...1100 mbar Accuracy: ± 0.5 mbar Resolution: 0.1 mbar
Global radiation ("Second Class")	Measuring range: 0...2000 W/m <sup>2</sup> ; Global radiation in the range of 285...3000 nm Resolution: 0.2 W/m <sup>2</sup>
Dew point	Calculated value

## Key features:

- Compact design that is easy to install and transport
- Durable seawater resistant aluminum construction ideal for severe weather conditions
- 7 integrated sensors with no moving measuring elements
- 8 continuous days of operation in battery mode (optional solar panel available)
- The system can be fitted with a variety of sensors to meet the requirements of any specific application



### ASK ABOUT: WEATHER BACKPACK

Weather Backpack is the compact weather station you can use anywhere, anytime. The system features high-quality sensor technology for all critical applications.

To find out more about all of our technologies, visit [aem.eco](http://aem.eco) or contact us at [info@aem.eco](mailto:info@aem.eco)