

# Vaisala Ultrasonic Wind Sensor WM80

## Product Spotlight

When uninterrupted wind speed and direction data are crucial for operations, the Vaisala Ultrasonic Wind Sensor WM80 delivers – with unmatched durability and easy installation in a user-friendly design.

WM80 is purpose-built to be accurate and reliable, even in challenging conditions, for applications such as renewable energy and maritime. Where other sensors fail, WM80 stands up to the most extreme conditions for long-term dependability.



## Key benefits

Rely on accurate wind measurements in all weather conditions, purpose-built for demanding onshore and offshore weather conditions.

Experience unmatched durability with easy installation and alignment.

Increase interoperability with seamless integration.

Get the most out of Vaisala trusted WINDCAP ultrasonic wind measurement technology.

## Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala provides trusted weather observations for a sustainable future. With nearly 90 years of innovation and expertise plus customers in 170+ countries from the North and South Poles to Mars, we help provide the most reliable and accurate weather and climate information for better and safer daily lives.

Our instruments and intelligence are known as the gold standard for precision and reliability. As a sustainability leader we enable meteorology professionals to better understand, forecast and explain climate change. We continue to channel our curiosity into climate action and new ways of enabling a better planet for all.

## Rugged design and exceptional accuracy

WM80 has been tested beyond its limits to ensure it stands up to extreme conditions. It is crafted from corrosion-resistant, anodized marine-grade aluminum and it houses 11 controlled heaters allowing stable performance even in arctic environments.

Several innovations allow the WM80 to measure reliably in tough conditions. One of them is the patent pending reflector design that directs and focuses the ultrasonic beam. The combination of innovations results in a 10-fold increase in signal level compared to conventional ultrasonic sensors. This allows uninterrupted and accurate wind measurements even in heavy rain or high wind speeds up to 90 m/s.

## Easy installation and usability

The compact design fits in tight spaces, and installation is straightforward. WM80 uses sturdy cables and a convenient push-pull cable connector for a secure and stable connection. The alignment tool helps to achieve precise sensor orientation for accurate wind direction information. WM80 maintenance is effortless since there are no moving parts that wear or break and no need for field calibration.

Seamless integration adds to WM80's ease of use. Standardized communication protocols (NMEA and Modbus serial interface) facilitate easy sharing and integration of wind data.

## Trusted technology for long-term use

WM80 uses patented Vaisala WINDCAP® ultrasonic wind measurement technology, which is based on more than 50 years of wind measurement expertise.

