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Ventus

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Ultrasonic Wind Sensor



The accurate wind sensor uses the run-time differential method for determining the wind speed and wind direction. It provides output for instantaneous values, vector and scalar means, the maximum gust of wind and wind direction, the maximum/minimum values and the virtual temperature. Data output through serial or analogue interfaces provides compatibility of the Lufft Ventus for commercially available hydrometeorological dataloggers and PLC systems. An automatic heater ensures reliable operation even in the lowest temperature.

Parameters measured: Wind speed, wind direction, virtual temperature, barometric pressure

Measurement technology: Ultrasonic

Product highlights: Maintenance-free measurement, suitable for extreme ambient conditions, ice-free operation, vibration and seawater resistant, compatible interfaces

Interface: SDI-12, RS-485, various RS-485-protocols, analogue output

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- Built-in data pre-processing, universal interfaces and selectable output protocols – compatible with OTT-dataloggers, commercially available HydroMet dataloggers and PLS systems
- Maintenance-free operation – no moving parts that can wear out thanks to ultrasonic measuring method; no need for re-calibration
- Suitable for all climate zones; also for solar-powered automatic meteorological stations
- Integrated heater that can be switched on if there is danger of frost – guarantees ice-free operation in extremely low temperatures until -40 °C
- Vibration and seawater resistant – also applicable in coastal regions
- Successfully tested and certified in extreme ambient conditions (temperature, air humidity, electromagnetic compatibility, vibration, salt spray, and icing)

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