



DATA SHEET

Clima Sensor - Multi-talented in Meteorology



Intelligent Measurement & Testing

Wide Variety of Measurement Data thanks to Ultrasound

Use our ultrasonic climate sensors to log numerous data, depending on the configuration level:

- Wind speed and direction
- Type of precipitation
- Brightness and dusk
- Ambient temperature
- Relative humidity
- Air pressure

The measured variables are provided via both analogue outputs and an RS422/485 interface (ASCII/MODBUS). The advantage of these combined sensors is their simple, space-saving installation with no complex mechanical support structures, which ensures an excellent price-performance ratio.

Benefits & Features

→ Compact sensor unit to measure a number of meteorological variables	→ Measurement of wind speed and direction by ultrasound (Ultrasonic, US)
→ Highly durable, no moving parts	→ Output: RS485 / MODBUS or 10 V signals
→ Precise measurement of meteorological variables	→ Integrated GPS receiver
	→ Developed and manufactured in Germany

Type Overview

Type	US WIND	US TFB	US NH	US NHTFB
Measurement Parameter				
Wind speed, 0 to 60 m/s	X	X	X	X
Wind direction, 0 to 360°	X	X	X	X
Precipitation intensity, 0.001 to 10 mm/Min.			X	X
Precipitation type			X	X
Brightness, 0 to 150 kLux			X	X
Ambient temperature, -30 to +70 °C		X		X
Relative air humidity, 0 to 100 %rH		X		X
Barometric pressure, 300 to 1100 hPa		X		X

Technical Data

All Types

Output signal	RS485 / MODBUS, analog 0 to 10 V for each measurement parameter
Voltage supply	5 to 30 V _{DC}
Heating	24 VAC/V _{DC} / 25 VA
Operating temperature	-30 to +70 °C
Degree of protection	IP66
Customs tariff number	90 15 80 20

Accessories

Clima Sensor US Cable serial	8-core cable for data acquisition by RS485 / MODBUS
Cable Clima Sensor US analog + serial	16-core cable for data acquisition by RS485 / MODBUS and 10 V signals

Scope of Delivery

All types	Instruction manual
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