

Weather Station Compact WSC11

Part number: 4.9056.10.000

The interface for the instrument is digital, and consists of an RS485 interface. Together with the ID-based communication the interface facilitates the operation of the weather station in a bus.

The instrument has a GPS receiver. It serves for the determination of position and time. The sun position is calculated herefrom additionally.

The following parameters can be measured:

- Wind speed
- Wind direction
- Brightness (in North, East, South, West)
- Twilight
- Global radiation
- Precipitation
- Temperature
- Relative air humidity
- Air pressure
- Time / date
- Geostationary data
- Longitude
- Latitude
- Sun position
- Elevation
- Azimuth



Specification

Part number: 4.9056.10.000

Wind speed

Measuring range	0 ... 40 m/s
Accuracy	±1 m/s rms (10 m/s) ±5 % rms (> 10 m/s)

Wind direction

Measuring range	0 ... 360 °
Accuracy	±10 °

Precipitation

Measuring range	1 / 0 (yes / no)
Accuracy	-

Radiation

Measuring range	0 ... 1300 W/m ²
Accuracy	±10 % of meas. range

Temperature

Measuring range	-30 ... +60 °C
Accuracy	±1 K @ -5 ... 25 °C (WS > 2 m/s)

Rel. Humidity

Measuring range	0 ... 100 % rel. h.
Accuracy	±5 % rel. h. (@ 0 ... 20 °C)

Brightness

Measuring range	0 ... 150 kLux
Accuracy	±3 % of meas. range

Twilight

Measuring range	0 ... 500 Lux
Accuracy	±10 % of meas. range

Air pressure

Measuring range	300 ... 1100 hPa
Accuracy	±0.5 hPa @ 20 °C

Data output digital

Interface	RS485 (half duplex)
Baudrate	1200 ... 115200 Baud
Protocol	ASCII (preselected)

Operating voltage

Electronic	18 ... 30 V DC or 18 ... 28 V AC 50 / 60 Hz
Current consumption	120mA @ 24 V (max. 1,5A AC, max 0,5A DC)

General

Time synchronization	GPS
Ambient temp.	-30 ... +60 °C
Electr. connection	7 pol. Stecker
Mounting	on mast tube Ø 25mm`
Dimension	Ø 130 x 70 mm
Weight	0.2 kg


Versions

As per 4.9056.10.000, but:

Product number 4.9056.10.001

Data output digital	
Protocol	MODBUS RTU (preselected)

Accessories

Product	Product name	Brief description				
	Mounting angle 509564	<p>Serves for the lateral mounting of the Weather Station COMPACT WSC11 at a vertical surface.</p> <hr/> <p>General</p> <table border="1"> <tr> <td>Material</td> <td>stainless steel 1.4301</td> </tr> <tr> <td>Dimension</td> <td>250 x 42 mm</td> </tr> </table>	Material	stainless steel 1.4301	Dimension	250 x 42 mm
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	Cable for WSC11 510023	<p>Assembled 7-pole connecting cable for Weather Station COMPACT WSC11 Equipment:</p> <ul style="list-style-type: none"> • cable socket, instrument-site • open ends, receive-site • shielded • length: 5 m • with Silicon spout <hr/> <p>General</p> <table border="1"> <tr> <td>Cable length</td> <td>5 m</td> </tr> </table>	Cable length	5 m		
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	Cable for WSC11 510024	<p>Assembled 7-pole connecting cable for Weather Station COMPACT WSC11 Equipment:</p> <ul style="list-style-type: none"> • cable socket, instrument-site • open ends, receive-site • shielded • length: 10 m • with Silicon spout <hr/> <p>General</p> <table border="1"> <tr> <td>Cable length</td> <td>10 m</td> </tr> </table>	Cable length	10 m		
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