

## MISCELLANEOUS DEVICES

### 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

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<b>Wind speed</b>	
Measuring range	0 ... 40 m/s
Resolution	±5% of meas. range
<b>Wind direction</b>	
Measuring range	0 ... 360 °
Accuracy	±10 °
<b>Precipitation</b>	
Measuring range	1 / 0 (yes / no)
<b>Temperature</b>	
Measuring range	-30 ... +60 °C
Accuracy	±1 K @ -5 ... 25 °C (WS > 2 m/s)
<b>Rel. Humidity</b>	
Measuring range	0 ... 100 % rel. h.
Accuracy	±5 % rel. h. (@ 0 ... 20 °C)
<b>Brightness</b>	
Measuring range	0 ... 150 kLux
Accuracy	±3 % of meas. range

#### Twilight

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

#### Radiation

Measuring range	0 ... 1300 W/m <sup>2</sup>
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	< 300 mA @ 24 V

#### General

Time synchronization	GPS
Ambient temp.	-30 ... +60 °C
Electr. connection	7 pol. Stecker
Mounting	on mast tube Ø 25mm <sup>∧</sup>
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 )
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## Accessories

Product	Product name	Brief description
	<b>Mounting angle</b> 509564	Serves for the lateral mounting of the Weather Station COMPACT WSC11 at a vertical surface.
		<b>General</b>
		Material
		stainless steel 1.4301
		Dimension
		250 x 42 mm

<p>Cable for WSC11 510023</p>	<p>Assembled 7-pole connecting cable for Weather Station COMPACT WSC11 Equipment:</p> <ul style="list-style-type: none"> <li>■ cable socket, instrument-site</li> <li>■ open ends, receive-site</li> <li>■ shielded</li> <li>■ length: 5 m</li> <li>■ with Silicon spout</li> </ul> <hr/> <p><b>General</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 70%;">Cable length</td> <td>5 m</td> </tr> </table>	Cable length	5 m
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<p>Cable for WSC11 510024</p>	<p>Assembled 7-pole connecting cable for Weather Station COMPACT WSC11 Equipment:</p> <ul style="list-style-type: none"> <li>■ cable socket, instrument-site</li> <li>■ open ends, receive-site</li> <li>■ shielded</li> <li>■ length: 10 m</li> <li>■ with Silicon spout</li> </ul> <hr/> <p><b>General</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 70%;">Cable length</td> <td>10 m</td> </tr> </table>	Cable length	10 m
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