

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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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	-
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
Radiation	
Measuring range	0 ... 1300 W/m²
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	Serves for the lateral mounting of the Weather Station COMPACT WSC11 at a vertical surface.	
		General	
		Material	stainless steel 1.4301
		Dimension	250 x 42 mm

	Cable for WSC11 510023	Assembled 7-pole connecting cable for Weather Station COMPACT WSC11 Equipment:	
		<ul style="list-style-type: none">• cable socket, instrument-site• open ends, receive-site• shielded• lenght: 5 m• with Silicon spout	
	Cable for WSC11 510024	Assembled 7-pole connecting cable for Weather Station COMPACT WSC11 Equipment:	
		<ul style="list-style-type: none">• cable socket, instrument-site• open ends, receive-site• shielded• lenght: 10 m• with Silicon spout	

