

WEATHER STATION

Weather Station Compact WSC11

Part number: 4.9056.xx.00x

The Compact WSC11 weather station is a versatile solution for building automation (BMS) and provides measured values that can be used for everything from room temperature control to fine-tuned monitoring and control of lighting, ventilation and shading systems, such as air conditioning, lamps, heating, windows, awnings, blinds and shutters.



The interface for controlling the device is digital and supports both RS485 (ASCII, Modbus RTU) and KNX (not directly from Thies CLIMA, offered by OEM partners). These interfaces enable smooth communication within a bus network.

In addition to the weather sensors, a GPS receiver is integrated, which allows a variety of parameters to be measured and calculated:

- Wind speed
- Wind direction
- Brightness (north, east, south, west)
- Twilight
- Global radiation
- Precipitation status
- Precipitation intensity (option)
- Precipitation amount (option)
- Ice/frost/snow detection (option)
- Temperature
- Dew point temperature
- Absolute humidity
- relative humidity
- Absolute air pressure
- Air pressure at sea level (QNH)
- Time / date
- Geostationary data
- Longitude
- Latitude
- Position of the sun
- 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 general	1 / 0 (yes / no)			
Accuracy	-			
Radiation				
Measuring range	0 1300 W/m²			
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.xx.00x, 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 latera	al mounting of the Weather Station at a vertical surface.		
Н		General			
		Material	stainless steel 1.4301		
		Dimension	250 x 42 mm		
	Cable for WSC 510023	Assembled 7-pole connecting cable for Weather Station Equipment:			
		• cable socket, instrument-site			
		open ends, receive-siteshielded			
		• lenght: 5 m			
		• with Silicon spout			
	General				
		Cable length	5 m		



Cable for WSC 510024 Assembled 7-pole connecting cable for Weather Station Equipment: cable socket, instrument-site open ends, receive-site shielded lenght: 10 m with Silicon spout General Cable length 10 m