Humidity, Temperature, Pressure, Wind, Brightness



Description

Clima Sensors D

Clima Sensor D, WTF Clima Sensor D, W Clima Sensor D, TF Clima Sensor D Order No.

Technical Data

Wind Precipitation, Brightness Temperature

The Clima Sensor D serves for the measurement of environmental data. These are available as

- Serial RS 485/422 telegram and as
- Analogue outputs for further processing

The CLIMA Sensor D has an internal DCF77 receiver, which takes the time signal of an atomic clock, and integrates it into the data telegram.

Ranges of application are:

- Building control systems
- Control technique
- Green house technique
- Processing of the acquired data to recording or display instruments

Depending on the model, the following data can be measured by the Clima Sensor D:

- Wind velocity
- Precipitation (yes/no)
- Brightness in Eastern, Southern and Western direction
- Twilight
- Temperature
- Rel. humidity

The respective holder serves for the mounting at masts or plane surfaces, depending on the range of application.

Instrument with internal condensation shield

		Twilight Air Humidi	
	4.9110.00.061 4.9100.00.061 4.9111.00.061 4.9101.00.061	X X X X X X X X X X	X X
	Wind	Measuring range Accuracy	1 40 m/s ±0.5 m/s or ±5% of measuring range Precipitation yes/no Fine drizzle Approx. 2 minutes
	Precipitation	Measuring range Sensitivity Switch-off-delay	
	Brightness for South East, West	Measuring range Spectral range Accuracy	0 100 k Lux 700 1050 nm ±10% of meas. value
	Twilight	Measuring range Spectral range Accuracy	0 250 Lux 700 1050 nm ±10% of meas. value
	Temperature	Measuring range Measuring element Accuracy	-20 +60 °C Pt 100 ¹ / ₃ DIN ±0.5 k at > 1 m/s
	Air humidity	Measuring range	0 100% rel . h.
		Accuracy	±3% in the range 10 90% rel. h.
	Output serial	Type Output Output parameter	RS 422 / 485 1200-19200 baud 8N1, full-duplex/ halve-duplex- operation Environmental data, housing, temperature,
	·		date, time, sensor status, checksum
	analogue	Signal 0 10 V	Depending on
		0 V/10 V	parameter With precipitation
		Load resistance	yes/no ≥ 10 kΩ ≥ 100 kΩ with precipitation
	General	Operating voltage Current consumption	16-28 VDC or 24 V AC ≤ 150 mA w/o condensation shield, approx. 600 mA with
		Ambient temperature Connection	condensation shield -40 °C +60 °C 10 m cable; LiYCY 16 x 0.14 mm², UV-resistant Retaining clamp, stainless steel max. 1.5 kg
		Mounting	
		Weight	
		4.9110.00.061 4.9100.00.061 4.9111.00.061 4.9101.00.061	Ø 130 x 430 mm Ø 130 x 335 mm Ø 130 x 310 mm Ø 130 x 215 mm