Clima Sensor D

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

Specification

Part number: 4.91xx.00.061

Precipitation	
Measuring range general	yes / no
Switch-off-delay	approx. 2 min
Sensitivity	fine drizzle
Brightness	
Measuring range	0 ... 150 kLux
Spectral range	700 ... 1050 nm

Accuracy	±10 % vom rel. Messwert
Measured directions	South, East, West
Twilight	
Measuring range	0 ... 250 Lux
Spectrum range	700 ... 1050 nm
Accuracy	±10 % of meas. value
Data output digital	
Interface	RS485 / RS422
Baudrate	1200 ... 19200 Baud
Duplex mode	Full / halfduplex
Protocol	ASCII
Parameter	environmental data, housing temperature, date / time, sensor status, checksum
Data output analog	
Type	max. 8 x 0 ... 10V (incl. Precipitation: 0 or 10 V)
Voltage output	min. 10 kê
General	
Power supply	16 ... 28V DC or 16 ... 24 V AC, max. 150 mA
Current consumpt.	600 mA
Electr. connection	10 m cable, LiYCY 16 x 0.14 mm², UV - resistant
Mounting	Wall or mast mounting, retaining clamb, stainless steel
Weight	1.5 kg

Versions

As per 4.91xx.00.061, but:

Product number 4.9100.00.061

Wind speed

Measuring range	1 ... 40 m/s

Accuracy	±0.5 m/s or ±5 % of meas. range

General

Dimension	Ø 130 x 335 mm
Weight	1.5 kg

Product number 4.9101.00.061

General

Dimension	Ø 130 x 215 mm
Weight	1.5 kg

Product number 4.9110.00.061

Wind speed

Measuring range	1 ... 40 m/s
Accuracy	±0.5 m/s or ±5 % of meas. range

Temperature

Measuring range	-20 ... +60 °C
Accuracy	±0,5 K @ WS > 2.5 m/s
Meas. element	Pt 100 acc. to DIN IEC 60751 1/3 class B

Rel. Humidity

Measuring range	0 ... 100 % rel. h.
Accuracy	± 3% rel. h. (@ 10 ... 90 % rel. h. and WS > 2.5 m/s)

General

Dimension	Ø 130 x 430 mm
Weight	1.5 kg

Product number 4.9111.00.061

Temperature

Measuring range	-20 ... +60 °C
Accuracy	±0,5 K @ WS > 2.5 m/s
Meas. element	Pt 100 acc. to DIN IEC 60751 1/3 class B

Rel. Humidity

Measuring range	0 ... 100 % rel. h.
Accuracy	± 3% rel. h. (@ 10 ... 90 % rel. h. and WS > 2.5 m/s)

General

Dimension	Ø 130 x 310 mm
Weight	1.5 kg

Accessories

No accessories are available for this product.