HYGRO THERMO SENSOR METEOCONTROL COMPACT

Item No.: 423.309

DESCRIPTION OF FUNCTIONS

With the Hygro- temperature sensor of the compact series, both the temperature and humidity can be measured. Ideally, the sensor should be combined with an irradiance sensor suitable for the compact series in order to prevent any falsification of the measurement data.

TECHNICAL DATA

Supply voltage:	12…30 V DC
Current consumption:	Max. 22.1 mA (at 24 V DC)
Protection class:	IP30 (sensor), IP 65 (electronics)
Ambient temperature (operation):	-30 … 70 °C
Connection class:	5 m cable
Dimensions:	Ø20 x 124 (180) mm
Weight:	0.45 kg

AIR HUMIDITY

Output signal	4 … 20 mA
Measuring range	0 … 100 % rel. humidity
Accuracy	±2 % rel. humidity (at 5 … 95 % rel. humidity and 10 … 40 °C)

Configuration for data logger:	
Type:	Current measurement
Gradient:	6.25
Offset:	-25
Abbreviation	E_AH_RELx

TEMPERATURE

Measuring element	PT100
Output signal	4 … 20 mA
Measuring range	-30 … 70 °C
Accuracy	±0.3 K
Response time (T90)	< 20 s (at v = 1.5 m/s)

Configuration for data logger:	
Type:	Current measurement
Gradient:	6.25
Offset:	-55
Abbreviation	T_Ux*

MEASUREMENT VALUES RECORDED

E_AH_RELx*	Relative humidity
T_Ux*	Ambient temperature

SPECIAL PROPERTIES

*Abbreviation x	x is a placeholder for a consecutive number. If more than one sensor of a given type is installed, the numbering starts with 1. Otherwise, 0 is used.