Temperature and humidity sensor with Ethernet interface and relays, with external DigiL probe

code: H3536

Temperature and relative humidity sensor with an external DigiL/0 digital probe on a cable and two output relays. Humidex calculation.
The H3536 sensor is designed for online monitoring of temperature and relative humidity in non-aggressive environments. The device is equipped with three binary inputs for detecting two-state signals. Connected devices can be controlled using two built-in relays.

The modern polymer humidity sensor ensures long-term measurement stability and resistance to water condensation. The measured temperature and relative humidity values are also used to calculate other humidity parameters – dew point temperature, absolute humidity, specific humidity, mixing ratio, specific enthalpy and Humidex index.

The device is equipped with an external DigiL/0 digital temperature and relative humidity probe on a cable. The probe is connected directly to the terminal block located on the main circuit board inside the device.

The sensor is supplied as standard with a DigiL/0 probe on a 1-meter cable. Cable lengths of 2, 5 or 10 meters are available at an additional cost.

Processing and analysis of measured data:

- online in COMET Cloud
- COMET Database software
- integration into third-party systems

Technical data

TEMPERATURE SENSOR	
Measuring range	-30 to +105 °C
Accuracy	±0.4 °C
Resolution	0.1 °C
HUMIDITY SENSOR	
Measuring range	0 to 100 % RH
Accuracy	±2.5 % RH from 5 to 95 % at 23 °C
Resolution	0.1% RH
DEW POINT	
Measuring range	-60 to +80 °C
Accuracy	±1.5 °C at ambient temperature T <25 °C and RH >30 %
Resolution	0.1 °C
RELAY OUTPUTS	
Quantity	2
Maximal voltage	50 V
Maximal current	2 A
Maximal power	60 VA

BINARY INPUTS	
Quantity	3
Signal for binary inputy	dry contact, open collector or two-state voltage signal. Inputs are not galvanically isolated.
Minimum pulse duration on binary input	500 ms
Voltage across open contact	< 3,3 V
Low voltage level	0 to +0,5 V
High voltage level	+3,0 to +30 V
GENERAL TECHNICAL DATA	
Operating temperature	-30 to +80 °C
Channels	1x connectable temperature+humidity probe
Acoustic alarm	from built-in beeper - switchable
Counted values	humidex, dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy
Output	Ethernet
Measuring interval	2 s
Range of humidity sensor temperature compensation	all temperature range
Available temperature units	degrees Celsius, degrees Fahrenheit
Communication protocol	WWW, ModbusTCP, SNMPv1, SOAP, XML
Alarm protocols	E-mail (SMTP authentication is supported), SNMP Trap, Syslog
Power	9-30 Vdc
Protection class	IP40
Dimensions	136 x 159 x 45 mm; length/diameter of external probe 88/18 mm
External probe cable length	1 meter
Weight	approx. 410 g
Warranty	3 years