



COMET SYSTEM, s.r.o.

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H3020 temperature and humidity regulator



code: H3020

Humidistat, thermostat with two relay outputs. Outdoor, indoor use.

Built-in relative humidity, temperature sensors. Measured values are also converted to other humidity interpretation: dew point temperature, absolute humidity, specific humidity, mixing ratio, specific enthalpy.

Included in delivery:

- Traceable calibration certificate
- Quick start manual
- Free program TSensor for configuring of the transmitter is ready to [Download](#)

Features

Humidistat is designed for two-state control of e.g. heating, ventilation, humidifier, dehumidifier, etc.

Transmitter is equipped with two relay outputs for alarm indication or control of external devices. Each relay can be assigned to any measured or computed value. For each relay setting of delay, hysteresis, audible alarm is enabled.

Measured temperature and relative humidity is recalculated to other humidity interpretations - dew point temperature, absolute humidity, specific humidity, mixing ratio or specific enthalpy.

Parameters are easy adjustable from regulator keyboard or from the computer. Large dual line LCD for simultaneous display of temperature, relative humidity or other calculated humidity interpretation is an advantage.

State-of-the-art capacitive polymer sensor ensures excellent calibration long term stability, inertia against water and condensation. Transmitter is designed for use in non-aggressive environment.

HUMIDISTAT APPLICATIONS

- **temperature and humidity control**
- **monitoring of temperature, humidity:**

- building management and automation
- server rooms
- telecommunication devices
- warehouses, glasshouses
- manufacturers

- museums, archives, galleries
- air-conditioned rooms, HVAC
- weather stations **To set regulator easily by the user from the PC program buying of SP003 cable is necessary** - see Optional accessory.

Free configuration program TSensor for regulator adjustment is ready to download anytime.

It is also enabled to adjust regulator from the instrument keyboard.

If different adjustment of relay outputs is required, please specify required output values (RH, T, Tdp, ..) in the order.

Adjustment is free of charge.

Technical Data

Technical parameters	Value
Output	None
Measured Value	Temperature + Relative Humidity
Construction Type	Ambient Air
Design	Industrial
Temperature Measuring Range	-30 to 80 °C
Relay Output	Yes
Two-State Input	No
Lcd Display	Yes
PoE	No
Maximum switching voltage, current, power of relay output	50V, 2A, 60VA
Audible alarm	from built-in beeper - switchable
Relative humidity range	0 to 100%
Accuracy of relative humidity measurement	±2.5% relative humidity from 5 to 95% at 23°C
Accuracy of temperature output	±0.4°C
Available temperature units	degrees Celsius, Fahrenheit
Accuracy and range of dew point temperature output - for more details see graphs	±1.5°C at ambient temperature T<25°C and RH>30% range -60 to +80 °C
Accuracy and range of absolute humidity output	±1.5g/m ³ at ambient temperature T < 25°C range 0 to 400 g/m ³
Accuracy and range of specific humidity output	±2g/kg at ambient temperature T < 35°C range 0 to 550 g/kg
Accuracy and range of mixing ratio output	±2g/kg at ambient temperature T < 35°C range 0 to 995 g/kg
Accuracy and range of specific enthalpy output	±3kJ/kg at ambient temperature T < 25°C range: 0 to 995 kJ/kg
Temperature operating range	-30 to +80°C
Temperature operating range of LCD display	readable to operating temperature +70°C, it is recommended to switch OFF the LCD over +70°C
Temperature compensation of the humidity sensor	all temperature range
Filtering ability of sensor cover	0.025mm - filter with stainless steel mesh
IP protection	IP65 electronics, IP40 sensors

Power	9-30Vdc, power consumption approximately 1W
Dimensions	136 x 213 x 45 mm (W x H x D), stem length 75mm
Weight	approximately 350g
Warranty	3 years