Electronic Humidistat
and PI Controller

**EH3 T2**

- Relative humidity % RH
- Absolute humidity g/kg
- Dew-point °Cdp
- Temperature °C / K / °F
- Two independent controllers
- Optional features:
  - To prevent condensation, a surface mounted temperature sensor provides a 'floating' set point for dewpoint control.
  - Duct mounted temperature sensor can also be used for controlling air temperature.
  - Communication through Modbus RTU.
  - Additional displays.

**Two closing contacts:** Possible to choose source from one of four parameters (shown above). Used for controlling dehumidifier capacity in two steps or a second dehumidifier or a room humidifier. With the add-on temperature sensor, humidity can be controlled on one channel and temperature on the other.

**Display and diodes:** 2 row display where two parameters can be monitored. Green "Normal" LED and red "Alarm" LED, switches at a set value of any of the four parameters.

**Analogue outputs:** 2 outputs with Vdc or mA, choose source from the PI-controller or one of the four parameters above.

**PI Control:** Two internal independent controllers as standard. It is easy to control both the humidity and the temperature. Set the desired value for relative humidity, absolute humidity, dew point, surface dew point or dry bulb temperature.

**Sensor:** Capacitive type moisture sensor from Honeywell with an accuracy of <±2%RH and <±0.5° C. Each sensor comes with a calibration protocol.
**SENSOR**

Measuring range: -30°C up to +80°C. 0-100%RH (non condensing)
Accuracy: <±2%RH and <±0.5°C in the full measuring range
RH stability: ±1% RH at 50% RH during 5 years
Calibration: Each sensor comes with a calibration protocol for 0% RH and 75.3% RH. The sensor can easily be changed and after setting the calibration parameters the ±2% RH accuracy is retained
Response time: At low air speed, 30 seconds
Mounting: 10 m sensor cable and wall mounting device included
Optional: 20 m sensor cable

**BOX**

Dimensions: Height: 120 mm, depth 90 mm, width 122mm
Display: 2 row LCD
Visual alarm: Green LED marked “Normal” and red LED marked “Alarm”
Programming: Four push-buttons for programming
Casing: IP65, ABS. Surrounding temperature: 0 to 50°C
Weight: 0.7 kg.
Mounting: 4 screw holes ø4mm, towards the wall.
c-c height: 90 mm, c-c width: 110mm. Optional: Frame for panel mounting

**CONNECTIONS & PROGRAMMING**

2 Separate relays: Potential free, max 230Vac 16A each. Possible to set parameter source, on value, differential down to off value and time delay.
2 Analogue outputs: Choose between 0-10Vdc, 2-10Vdc, 0-20mA or 4-20mA. Also possible to choose parameter source and scale parameter or regulator. Independent of the two relays.
2 PI Controllers: Can be individually set to any of the parameters given below.
Visual alarm: Possible to choose parameter source and value when it should switch between green LED and red LED.
Parameters: Relative humidity %RH, absolute humidity g/kg, dew-point °Cdp and temperature °C/K/°F
An extra temperature sensor can be used as the floating set-point for dew-point control.
Cable size: Maximum 1 x 1.5 mm² per terminal.
Supply: 230Vac, 50Hz (cable not included).