

# Electronic humidistat and controller



## EH3 T2

- Relative humidity % RH
- Absolute humidity g/kg
- Dew-point °Cdp
- Temperature °C / K / °F
- Two independent regulators
- Possible add-ons:
  - Condensation-free thanks to that temperature sensor 2 is being placed on the surface to be kept condensation-free, serves as set point for the humidity controller. Temperature sensor 2 can also be used for controlling the temperature
  - Communication through modbus
  - Additional displays

**Two closing contacts:** Possible to choose source from one of the four parameters above to each relay. Used for controlling one dehumidifier in two steps or to control two separate dehumidifiers. Can also be used for dehumidifying on one relay and temperature control 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-regulator or one of the four parameters above.

**PI-regulator:** Two independent regulators are available as standard. Thereby it is possible to control both the humidity and the temperature. Set the desired value for relative humidity, absolute humidity, dew point, liquid dew point and temperature and EH3 T2 will keep it constant.

**Sensor:** Capacitive type moisture sensor from Honeywell with an accuracy of  $<\pm 2\%$  RH and  $<\pm 0.5^\circ$  C. Each sensor comes with a calibration protocol.



EH3 T2 with back-lit display, available from Seibu Giken DST only



Humidity- and temperature sensor from Honeywell (standard)



Temperature sensor 2 (optional), also available for surface mounting

## SENSOR

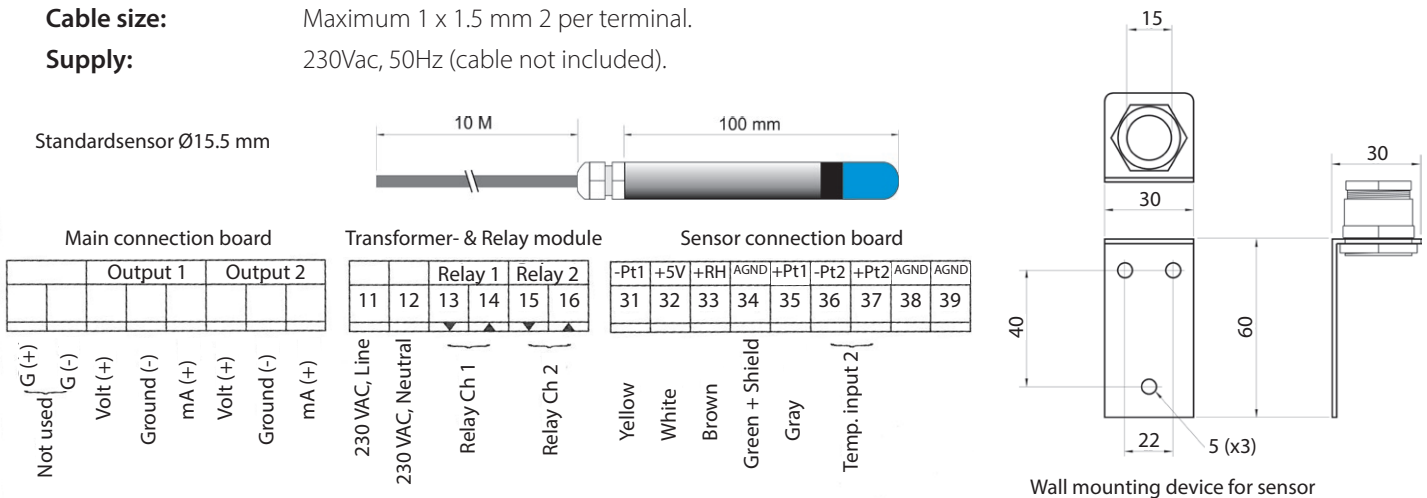
- Measuring range:** -30°C up to +80°C. 0-100%RH (not condensing)
- Accuracy:** <math>\pm 2\%RH</math> and <math>\pm 0.5^\circ C</math> in the full measuring range
- RH stability:**  $\pm 1\% RH$  at 50% RH during 5 years
- Calibration:** Each sensor comes with a calibration protocol for 0% RH and 75.3% RH. The sensor can easily be changed and after setting the calibration parameters on the display the <math>\pm 2\% RH</math> accuracy is obtained again
- 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: 0-50°C
- Weight:** 0.7 kg.
- Mounting:** 4 screw holes  $\varnothing 4mm$ , 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 independent PI-regulator:** 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, from included standard sensor. Also possible to add temperature from extra sensor. The extra temp-sensor can also be the set-point to a dew-point regulator.
- Cable size:** Maximum 1 x 1.5 mm 2 per terminal.
- Supply:** 230Vac, 50Hz (cable not included).



Subject to change without notice.

Updated 19.01



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