

Electronic humidistat and controller **EH3**

- Relative humidity % RH
- Absolute humidity g/kg
- Dew-point °Cdp
- Temperature °C / K / °F

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: Controls energy-saving on a three phase dehumidifier or a valve for a cooling coil. Set relative humidity, absolute humidity, dew-point or temperature and EH-3 will keep it constant.

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



EH-3 is available only from Seibu Giken DST

SENSOR

Measuring range:	-30°C up to +80°C. 0-100%RH (not 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 on the display the <±2% RH 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 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
PI-regulator:	Occupies one of the analogue outputs if in use. Independent of the two relays
Visual alarm:	Possible to choose parameter source, P-band, I-time and set value
Parameters:	Independent of the two relays. Possible to choose parameter source and value when it should switch between green LED and red LED. Relative humidity %RH, absolute humidity g/kg, dew-point °Cdp and temperature °C/K/°F
Cable size:	Maximum 1 x 1.5 mm ² per terminal
Supply:	230Vac, 50Hz (cable not included)

