Room Humidistats, Single-Stage, 1-SPDT

Specifications subject to change without notice. | USA 200204 | Page 1 of 2



DESCRIPTION NZH-101

Electro-mechanical humidistats to detect and control relative humidity in air.

APPLICATION

To sense the relative humidity in air, and for low- or line-voltage on/off single-stage control of humidifiers, dehumidifiers, compressors, solenoids, valves, relays, and other electrical equipment in commercial and industrial environments, i.e., offices, computer rooms, food storage warehouses, greenhouses, indoor swimming pools; dairy-, textile-, paper- and printing plants, and many more.

FEATURES

- · Continuous monitoring
- · Humid- or dehumidification on/off control
- Switched output, SPDT
 - 24...230 VAC, 5 (0.2)A
 - 50 VDC, 1A

- · Scaled setpoint knob
- Easy to install
- Maintenance-free in clean air applications





certified $C\epsilon$ **ISO 9001**

SPECIFICATIONS

Sensor Performance

Relative humidity in air 0-100% rH (rF) 30-100% rH (rF) - operating range - condition non-aggressive air Polyga[®] bands of Sensor element

multi-synthetic fibers. water-resistant

± 3% rH (rF)

Permissible air velocity,

maximum

Response time < 72 sec. for 50% step change,

at 394 ft/min (2 m/sec)

2970 ft/min (15 m/sec)

Type of Control

Stage level/setpoint

Accuracy

General On/Off, single-stage control,

with (1) microswitch output Field adjustable over the full

operating range

- dial knob range 30-100% rH (rF)

- hysteresis/

switching differential 4% rH (rF), fixed,

@ 50% rH (rF) environment

Microswitch SPDT, airtight

- contact rating 24...230 VAC, 5(0.2)A

50 VDC, 1A

Environmental

Permissable ambient

- working temperature 32°F to 140°F (0°C to 60°C) - storage temperature -4°F to 158°F (-20°C to 70°C) 0 to 95% rH (rF), non-condensing

- humidity

- working pressure Atmospheric ± 10% **Physical**

Enclosure

Wire size

- material ABS, fire-retardant - color Light grey

- protection NEMA1 (IP20)

Room, Wall (surface) mounted Installation

Dimensions (HxWxD)

2.8 x 4.6 x 1.4 in. enclosure

(70 x 115 x 35 mm)

Cable entry Slot entry, backside of enclosure

Wire connection Terminal block.

> screw type for lead wire Max. 16 AWG (1.5 mm²)

Weight 0.3 lbs., (0.12 kg)

Approvals / Listings CE

Electromagnetic

compatibility (EMC)

- resistance interference, conformity

interference emmission,

conformity EN50081-2

18 months material and Warranty

workmanship

EN50082-2

ORDERING INFORMATION

Humidistat, room surface mount,

single-stage

NZH-101 - w/external setpoint dial knob NZH-101U - w/internal setpoint dial

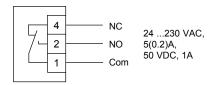


Specifications subject to change without notice. | USA 200204 | Page 2 of 2



WIRING CONFIGURATION

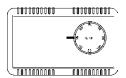
NZH-101/101U



Sensing rH (rF) Contacts Closed

Below setpoint = 1 to 2 (humidification)
Above setpoint = 1 to 4 (dehumidification)

INSTALLATION



Attention

- Must avoid chemically agressive atmosphere.
- · Horizontally surface mount
- Give enough space around the unit to allow appropriate airflow thru the enclosure's ventilation slots.