

Technical Overview

RH-EHD humidistats are designed for duct mounting for the ON/OFF control of humidification and dehumidification equipment, or the initiation of alarms or override controls.

High quality sensing elements ensure accurate measurement and switching differential.

Features:

- Concealed adjustment
- Single or dual stage available
- 24Vac or 230Vac versions



Specification:

Housing material	Polycarbonate
Supply requirements	230Vac or 24Vac
Switching points:	
First stage	Setpoint 30-90% RH
First stage	Hysteresis $\pm 4\%$ RH
Second stage	Setpoint differential 5 - 20% RH
Second stage	Hysteresis $\pm 4\%$ RH
Humidity Accuracy	$\pm 5\%$ RH
Humidity Differential	$\pm 4\%$ (per stage)
Switch rating	10(6)A @ 230Vac SPDT
Weight	300 g
Installation category	IEC 664 Category II
Pollution degree	IEC 664 Degree 1
Protection	IP65
Dimensions:	
Housing:	57mm x 90mm dia.
Probe:	140mm x 19mm dia.
Country of origin	UK

Mounting:

Select a location on a wall of the controlled space, in a location that will give a representative sample of the prevailing room condition.

Avoid siting the unit in direct sunlight.

Remove lid from box and mark holes for screws on the wall, using the base plate as a template. Take care not to contaminate the transmitter with dust, dirt or static. Remove base plate and drill screw holes.

Care should be taken not to lay control signal wiring in close proximity to power or other cables which may produce significant magnetic noise.

Allow 3 minutes before checking functionality.

Allow 30 minutes before carrying out pre-commissioning checks.

Product codes:

RH-EHD501C-24	24Vac - single stage
RH-EHD501C-230	230Vac - single stage
RH-EHD501E-24	24Vac - dual stage
RH-EHD501E-230	230Vac - dual stage

Datasheet: RH-EHD Iss. 5.2 25/06/2001

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Important installation notes:

- The humidistat should only be installed by a competent, suitably trained technician, experienced in installations with hazardous voltages (>50Vac & <1000Vac **or** >75Vdc & <1500Vdc)
- The humidistat might not remain safe if installed in a fashion contrary to these installation instructions.
- The humidistat should only be installed for use with hazardous voltages if these hazardous voltages incorporate a switch or circuit breaker.
- All terminals must be disconnected before screwing or unscrewing the terminals.
- Cleaning should be performed with a dry cloth or brush. Wet solvents should not be used.

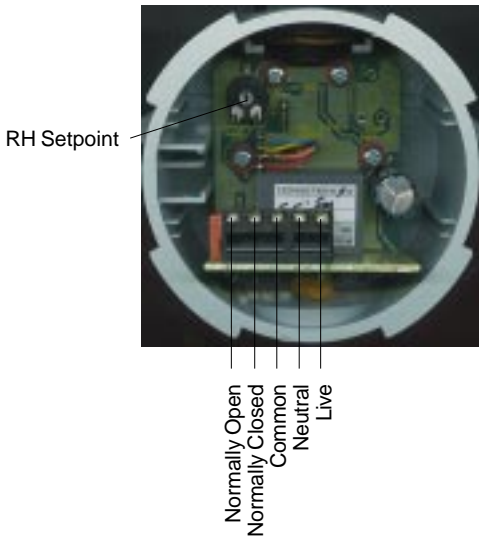
Switching points:

- Adjust the first stage setpoint as required (between 30 & 90% RH).
- Allow for $\pm 4\%$ hysteresis, i.e. if setpoint = 45% RH, the actual switch ON point will be 49% RH and the switch OFF point will be 41% RH.
- Adjust the second stage differential.
- The second stage ON point is defined as (first stage SP + differential + 4%)
- The second stage OFF point is defined as (first stage SP + differential - 4%)

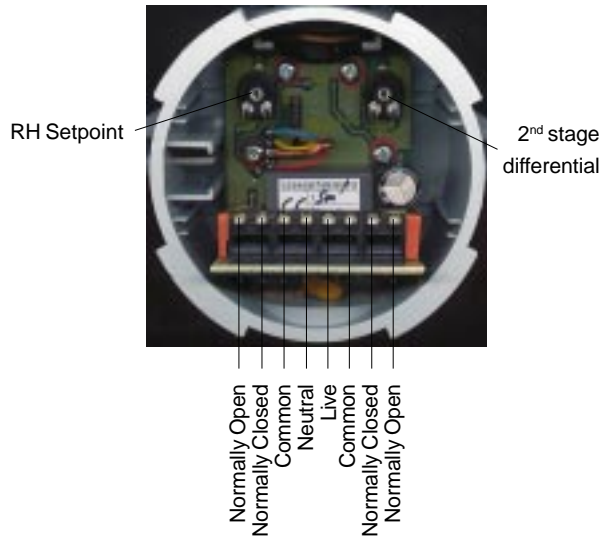
NB If the maximum second stage switching point is 90%

PCB Layouts:

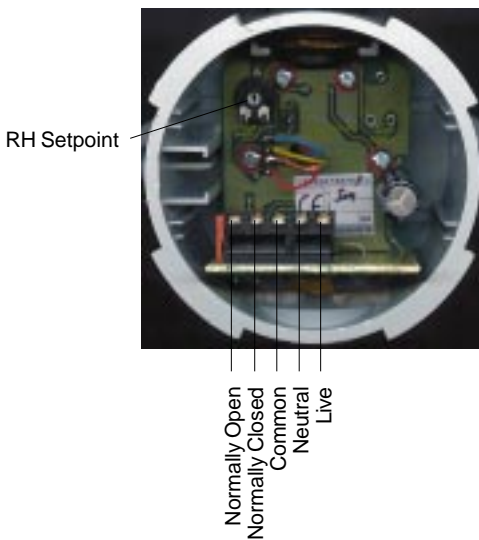
RH-EHD501C-230



RH-EHD501E-230



RH-EHD501C-24



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