



HD1-24/D is an electronic humidistat for controlling humidity in HVAC systems. The humidistat is to be connected to a humidity transmitter with analogue output signal 0...10V.

- * One step changeover relay
- * Individually adjustable on/off level
- * Input signal 0...10V
- * Compact format for mounting on DIN-rail

Function

HD1-24/D is an electronic humidistat which converts an input signal 0...10V from a connected humidity transmitter to changeover contact function. When the input signal reaches the setpoint the relay changes over.

The electronic humidistat is used to control humidifying and dehumidifying installations.

HD1-24/D comes in standard casing for DIN-rail mounting with all controls easily accessible on the front.

Transmitters

HD1-24/D is connected to a humidity transmitter. Room transmitters, see sheet 6-200, HRT or HRT350. Duct transmitters: see sheet 6-300, HDT3200.

Indication

Diodes indicates when supply voltage is on and when output relay is activated.

Function selection

The switch marked OUTPUT determines whether the output relay is activated on rising (POS) or falling (NEG) input signal.

Controlling dehumidification

In the POS position the output relay will be activated when humidity exceeds the set value of HIGH and will be deactivated when humidity goes below the set value of LOW.

Controlling humidification

In the NEG position the output relay will be activated when humidity goes below the set value of LOW and will be deactivated when humidity exceeds the set value of HIGH.

For both dehumidification and humidification it is important that the setpoint for HIGH is always set higher than LOW.

Typical applications

Controlling humidifiers or dehumidifiers. Controlling fan on/off, alarm humidistat for high/low limit.

Technical data

General

Supply voltage	24 V AC +/- 15 % 50-60 Hz
Power consumption	2 VA
Ambient temperature	0...50°C
Storage temperature	-40...+50°C
Ambient humidity	Max 90% RH
Form of protection	IP20



This product conforms with the requirements of European EMC standards CENELEC EN 50081-1 and EN 50082-1, European LVD standards IEC 669-1 and IEC 669-2-1 and carries the CE mark

Input

Input signal	0...10 V DC
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Output

Relay contact data	One changeover contact, 230 V AC 10 (2) A.
Indicator	Red LED indicates activated relay.

Settings

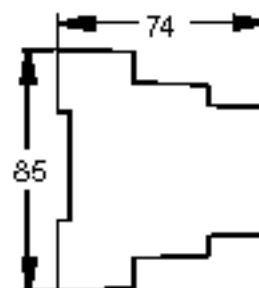
HIGH	20...95%RH (Upper switching level)
LOW	20...95%RH (Lower switching level)
HIGH must always be set to a higher value than LOW. For stable function the difference between HIGH and LOW must be at least 1% RH.	

Switches

OUTPUT	POS Positive logic
	NEG Negative logic

Wiring and dimensions

1	System neutr	Supply-
2	24V AC in	voltage
3	Not connected	
4		Relay
5		
6		
7	Signal neutral	230V AC
8	0-10 V input	10(2)A
9	Not connected	
10	Not connected	
11	Not connected	
12	Not connected	



Sizes in mm

Terminal 1 - system neutral and terminal 7 - signal neutral are internally connected.

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