

**ROOM / DUCT HUMIDISTATS
1-2 STAGES**

EHR.. EHD..

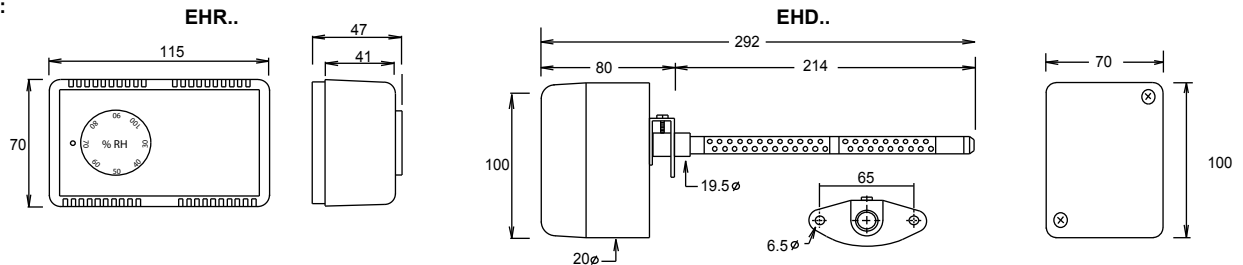
■ To monitor humidity in rooms or ducts and switch extract fans, alarms, humidifiers or de-humidifiers etc in the event of high or low humidity level. Any combination of humidifying or de-humidifying is possible.



Volt free contacts Max. air velocity 15 m/s
 Terminals 0.5-2.5mm² Accuracy ± 3%RH
 Media Temp. 0-60°C 0-100% RH non-condensing.
 Sensing element - Specially treated plastic strands which do not require regeneration.
 EHR.. If humidity level exceeds 85%RH, a low voltage supply is recommended.
 Not suitable for aggressive dirty or dusty media.
 Enclosure Flammability:
 EHR.. = UL94-HB EHD.. = UL94-V0

Type	Mounting	Stages	Range % RH	Diff. per Stage	Diff. between Stages	230VAC SPDT	Adjustment	Enclosure
EHR-1	Room	1	30/100	4%	-	5(2)A	Concealed	IP30
EHR-2	Room	2	30/100	4%	2/15% adj.	2 x 5(2)A	Concealed	IP30
EHR-1V	Room	1	30/100	4%	-	5(2)A	Knob	IP30
EHR-2V	Room	2	30/100	4%	2/15% adj.	2 x 5(2)A	Knob	IP30
EHD-1	Duct	1	30/100	4%	-	15(4)A	Concealed	IP54
EHD-1W	Duct	1	30/100	4%	-	15(4)A	Concealed	IP65
EHD-2	Duct	2	30/100	4%	3/18% adj.	2 x 15(4)A	Concealed	IP54

DIMENSIONS:

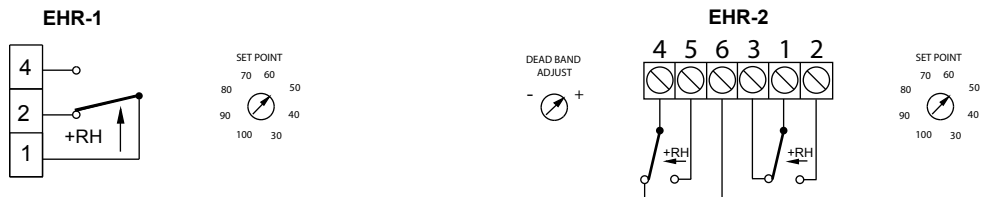


ACCESSORIES:

EE-RAD Radiation /Weather shield for EHD
 To protect from direct sunlight/weather conditions.
 Install vertically as shown only

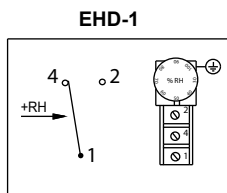


WIRING:



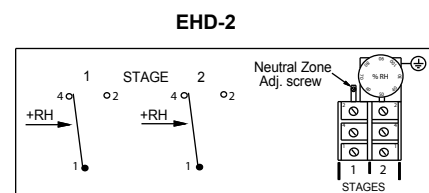
Humidity rise to scale setting - contact 1 - 4 close.
 Humidity fall (diff) - contact 1 - 2 close.
 Humidifying Only : Contacts 1-2
 Dehumidifying Only : Contacts 1-4

Stage 1 - humidity rise to scale setting contact 1 - 3 close 1 - 2 open.
 Stage 2 - humidity rise above neutral zone, contact 4 - 6 close 4 - 5 open.
 Humidifying Only : Contacts 1-2 & 4-5
 Dehumidifying Only : Contacts 1-3 & 4-6
 Hum & Dehum: Hum stage 1 & De-hum stage 2



Humidifying Only : Contacts 1-4 & 1-4
 Dehumidifying Only : Contacts 1-2 & 1-2
 Hum & Dehum: Hum stage 1 & De-hum stage 2

Humidity rise to scale setting - contact 1 - 2 close.
 Humidity fall (diff) - contact 1 - 4 close.

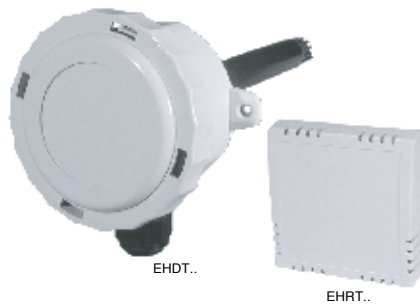


Stage 1 - humidity rise to scale setting contact 1 - 2 close 1 - 4 open.
 Stage 2 - humidity rise above neutral zone contact 1 - 2 close 1 - 4 open.

**HUMIDITY & TEMPERATURE TRANSMITTERS
0-10VDC / 4-20mA ROOM / DUCT**

EHRT.. EHDT..

These products can be used to monitor humidity or humidity + temperature inside rooms or ducts and give a 0-10vdc/4-20mA output signal linear across the measuring range.
The humidity sensor is capable of remaining stable in saturated conditions 100% RH for short periods. Suitable for use in HVAC & BMS systems.



Humidity..
0-100% RH non-condensing.
Accuracy <2%RH
Linearity and reproducibility <0.5%RH at 25 C
Long term stability <2%RH, 12 months

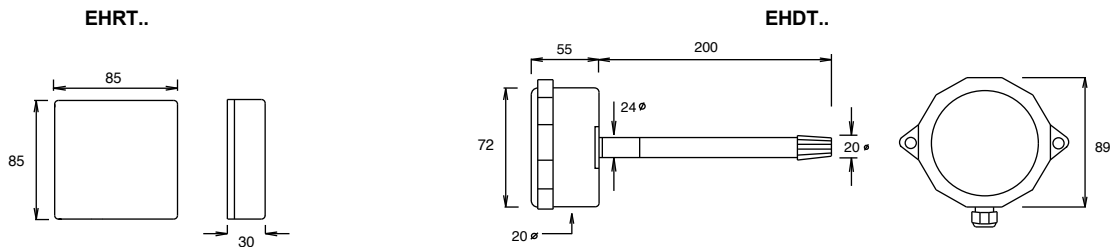
Temperature..
Accuracy <1°C
Linearity <0.5%
Max media -20/+70°C

Enclosure Flammability EHRT.. UL94-HB
EHDT.. UL94-V0

Type	Mounting	Range %RH	Range °C	Supply ±15%	Output Signal	Load	Consumption mA	Enclosure
EHRT-2	Room	0/100	-	24VAC/DC	0-10vdc	>10KΩ	25	IP30
EHRT-3	Room	0/100	-	24VDC	4-20mA loop	< 600 Ω	30	IP30
EHRT-4	Room	0/100	& -10/+50	24VAC/DC	2x 0-10vdc	>10KΩ	50	IP30
EHRT-5	Room	0/100	& -10/+50	24VDC	2x 4-20mA loop	< 600 Ω	60	IP30
EHDT-6	Duct	0/100	-	24VAC/DC	0-10vdc	>10KΩ	25	IP65
EHDT-7	Duct	0/100	-	24VDC	4-20mA loop	<600 Ω	30	IP65
EHDT-8	Duct	0/100	& -10/+50	24VAC/DC	2x 0-10vdc	>10KΩ	50	IP65
EHDT-9	Duct	0/100	& -10/+50	24VDC	2x 4-20mA loop	<600 Ω	60	IP65

OPTIONAL NTC/PT sensor for two wire temperature resistance output. Available on EHRT-2/3 and EHDT-6/7 models only
Add suffix of sensor required 10K3A1 10K4A1 PT100 PT1000 etc. ie EHRT-2/10K3A1/A, EHDT-6/10K3A1

DIMENSIONS:



Can be mounted on square or round outlet box
In areas of high humidity use the duct model and mount with probe facing downwards
Not suitable for dirty, dusty or aggressive media.

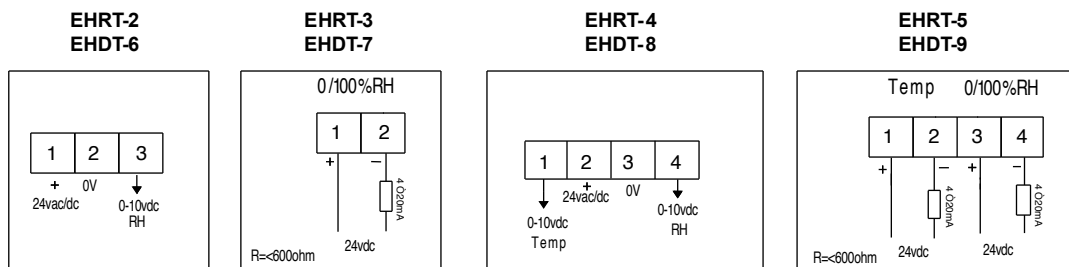
Install the probe at any angle horizontal to downwards.

ACCESSORIES:

EE-RAD Radiation / Weather shield for EHDT
To protect from direct sunlight/weather conditions.
Install vertically as shown only



WIRING:



INSTALLATION:

Min sensor / control signal cable size 7/0.2mm Max length 100m. Keep away from power cables/units which may cause interference.
Screened cable is recommended. The screen should be earthed at controller end only. Terminals 0.5 - 2.5mm