

ROOM / DUCT HUMIDISTATS 1-2 STAGES

EHR.. EHD..

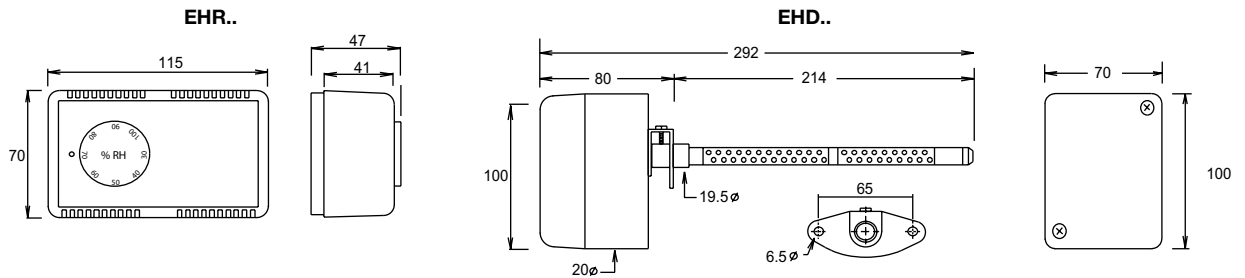
To monitor humidity in rooms or ducts and switch extract fans, alarms, humidifiers or de-humidifiers etc in the event of high or low humidity level. Any combination of humidifying or de-humidifying is possible.



Volt free contacts      Max. air velocity 15 m/s  
 Terminals 0.5-2.5mm<sup>2</sup>      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
<b>EHR-1</b>	Room	1	30/100	4%	-	5(2)A	Concealed	IP30
<b>EHR-2</b>	Room	2	30/100	4%	2/15% adj.	2 x 5(2)A	Concealed	IP30
<b>EHR-1V</b>	Room	1	30/100	4%	-	5(2)A	Knob	IP30
<b>EHR-2V</b>	Room	2	30/100	4%	2/15% adj.	2 x 5(2)A	Knob	IP30
<b>EHD-1</b>	Duct	1	30/100	4%	-	15(4)A	Concealed	IP54
<b>EHD-1W</b>	Duct	1	30/100	4%	-	15(4)A	Concealed	IP65
<b>EHD-2</b>	Duct	2	30/100	4%	3/18% adj.	2 x 15(4)A	Concealed	IP54

DIMENSIONS



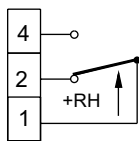
ACCESSORIES:

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



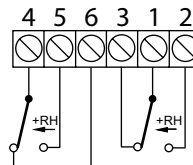
WIRING:

EHR-1



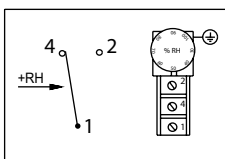
Humidity rise to scale setting - contact 1 - 4 close.  
 Humidity fall (diff) - contact 1 - 2 close.  
 Humidifying Only : Contacts 1-2  
 Dehumidifying Only : Contacts 1-4

EHR-2



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

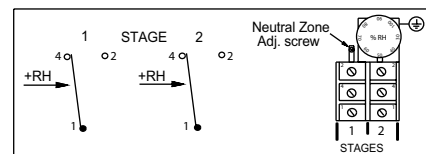
EHD-1



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.

EHD-2



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

## 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.



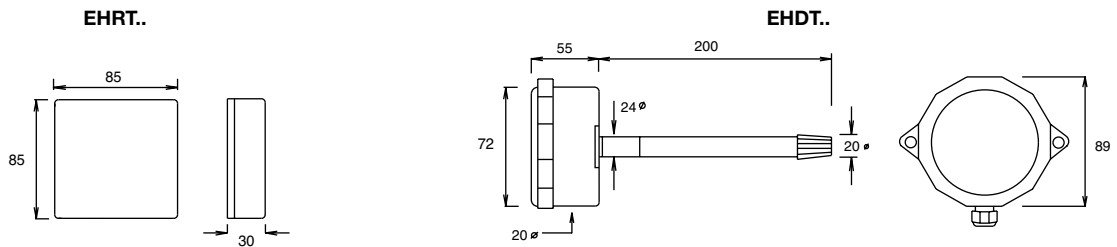
Humidity..  
0-100% RH non-condensing.  
Accuracy <2%RH  
Linearity and reproducibility <0.5%RH at 25 C  
Long term stability <2%RH, 12 months  
Temperature..  
Accuracy <1°C  
Linearity <0.5%  
Max media -20/+70°C  
Enclosure Flammability EHRT.. UL94-HB  
EHDT.. UL94-V0

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

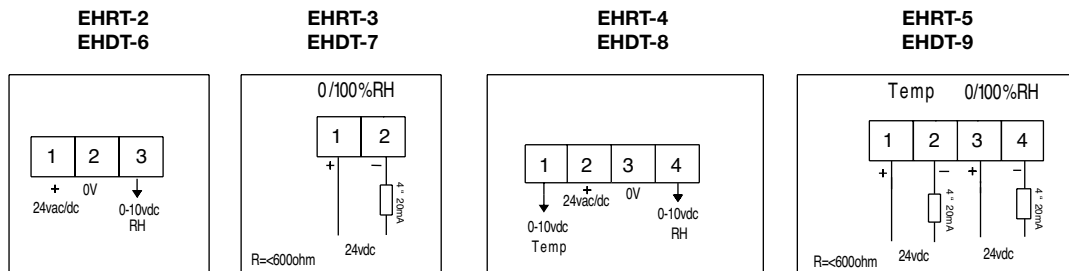
Install the probe at any angle horizontal to downwards.

### ACCESSORIES:

**EE-RAD** Radiation /Weather shield for EHD  
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