

Series W43 Room Humidistats

ntroduction

These room humidistats are designed to control humidification or dehumidification equipment. It provides SPDT control.

Description

The sensing element consists of carefully selected and processed human hair, proven to be the most sensitive and stable material known for this application. Under normal conditions these controls retain their sensitivity and accuracy for many years.

Note

These controls are designed for use only as operating controls. Where an operating control failure would result in personal injury or loss of property it is the responsibility of the installer to add devices or systems that protect against, or warn of, control failure.



W43C Room Humidistat

| Feature and Benefits | | | | |
|----------------------|--|---|--|--|
| | Wide range 0 to 90% R.H. | Can be used for most of the applications. | | |
| | Dust tight Penn switch. | Prevents pollution of the contacts by electrostatic influences. | | |
| | SPDT Contacts. | Control can be used for either humidification or dehumidification. | | |
| | Use of human hair. | Proven to be the most sensitive and stable material. | | |
| | Field adjustable high and low limit stops. | Can be set within small ranges. Can be used as dial lock. | | |
| | Separate mounting plate. | Makes mounting very easy. | | |

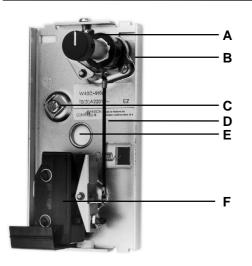


Fig. 1 W43C Room Humidistat, cover removed

A. High limit stop

B. Low limit stop

D. Hair element

F. Contact block

E. Cable inlet

C. Earthing screw

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Contact functions

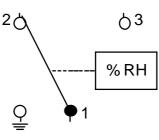


Fig. 2 **Contacts 1-3** close on increase in relative humidity .

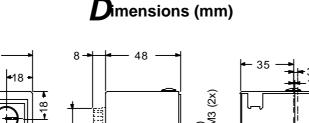
Contacts 1-2 close on decrease in relative humidity.

Repair and Replacement

Repair is not possible. In case of an improperly functioning control, please check with your nearest supplier. When contacting the supplier for a replacement you should state the type/model number of the control. This number can be found on the data plate or cover label.

Type number selection table

| Description | Type number |
|--------------------------|-------------|
| External knob adjustment | W43C-9100 |



70 +++ M3 (2x) 5 (6x) 4 ۲ **(**1) 35.5 130 <u>1</u> 66 82 ţ (Z) ሱ ത 3.5 65 ┝ 35.5 ┥ 60



Note

| | Specific | cations | |
|----------------------------|---|--|--|
| Product type | W43C | | |
| Operating range | al $\approx 4\%$ R.H. (fixed) | | |
| Differential | | | |
| Adjustment | | | |
| Off Positions | 'Deh off' | For dehumidification off turn dial knob to full counter-clockwise position | |
| | 'Hum off' | For humidification off turn dial knob to full clockwise position | |
| Limit stops | k High and low limit stops can be set to prevent dial from being rotateg Flush mounting (separable mounting plate) | | |
| Dial Lock | | | |
| Mounting | | | |
| Contact function | | | |
| Material | Cover | Sheet metal, tawny silver finish, face plate in two shades of brown | |
| | Sensing element | Specially treated human hair (210 strands) | |
| Enclosure | IP20 | | |
| Ambient temperature limits | 0 to +40°C | | |
| Electrical ratings | ~15(3)A 230V | | |
| Shipping weights | Ind. pack | 0.46 kg | |
| | Overpack | 11.5 kg (24 pcs.) | |

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office or representative. Johnson Controls shall not be liable for damages resulting from misapplication or misuse of its products.



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