

## Series W43 Room Humidistats

### Introduction

*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

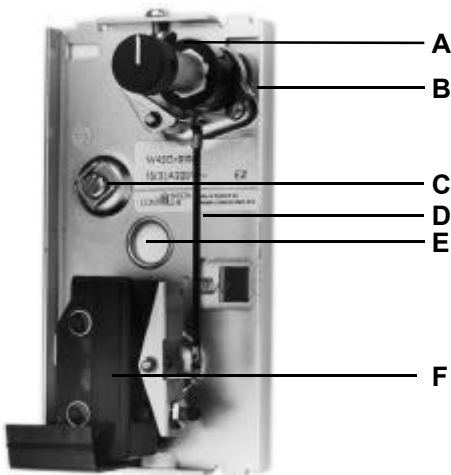
These controls are designed for use only as operating controls. Where an operating control failure would result in personal injury or loss of property it is the responsibility of the installer to add devices or systems that protect against, or warn of, control failure.



**W43C  
Room Humidistat**

#### Feature and Benefits

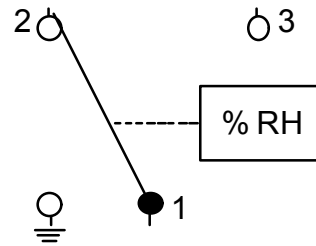
<input type="checkbox"/> <b>Wide range 0 to 90% R.H.</b>	Can be used for most of the applications.
<input type="checkbox"/> <b>Dust tight Penn switch.</b>	Prevents pollution of the contacts by electrostatic influences.
<input type="checkbox"/> <b>SPDT Contacts.</b>	Control can be used for either humidification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



**Fig. 1**  
W43C Room Humidistat, cover removed

- A. High limit stop
- B. Low limit stop
- C. Earthing screw
- D. Hair element
- E. Cable inlet
- F. Contact block

### 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

### Dimensions (mm)

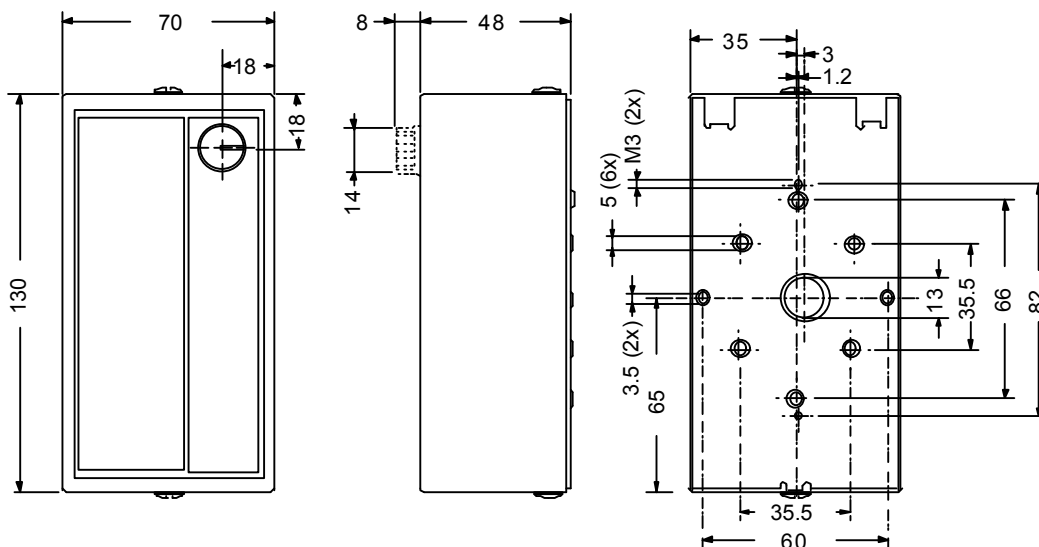


Fig. 3

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# Note

## Specifications

<b>Product type</b>	W43C	
<b>Operating range</b>	0 to 90% R.H.	
<b>Differential</b>	≈ 4% R.H. (fixed)	
<b>Adjustment</b>	External (knob)	
<b>Off Positions</b>	<b>'Deh off'</b>	For dehumidification off turn dial knob to full counter-clockwise position
	<b>'Hum off'</b>	For humidification off turn dial knob to full clockwise position
<b>Limit stops</b>	Field adjustable, high and low limit stops	
<b>Dial Lock</b>	High and low limit stops can be set to prevent dial from being rotated	
<b>Mounting</b>	Flush mounting (separable mounting plate)	
<b>Contact function</b>	SPDT contacts in dust-tight enclosure	
<b>Material</b>	<b>Cover</b>	Sheet metal, tawny silver finish, face plate in two shades of brown
	<b>Sensing element</b>	Specially treated human hair (210 strands)
<b>Enclosure</b>	IP20	
<b>Ambient temperature limits</b>	0 to +40°C	
<b>Electrical ratings</b>	~15(3)A 230V	
<b>Shipping weights</b>	<b>Ind. pack</b>	0.46 kg
	<b>Overpack</b>	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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