



SPECIFICATION DATA

H46C,D HUMIDITY CONTROLLERS

application: The H46C Humidity Controller provides automatic control of dehumidifying equipment; the H46D, automatic control of humidifying equipment. Both models are suitable for control of line-voltage equipment.

construction: The H46 controllers have a molded plastic cover which fits on a heavy folded sheet metal case. The switch contacts are enclosed and dust-free. The sensing element is made of exceptionally thin (1 mil), moisture sensitive nylon ribbon which is wound around three bobbins to give, effectively, four-element control. This element is sensitive to small changes in relative humidity and provides reliable operation even when ambient temperature conditions change. The control point is set by rotating the knob on the face of the control. ON and OFF setting positions are provided for manual operation of the humidifier or dehumidifier. Leads are provided for field connections.

specifications:

MODELS:

H46C dehumidifier controller with adapter plate for vertical switch box mounting.

H46D humidifier controller with adapter plate for vertical switch box mounting.

ELECTRICAL RATING AT 120V AC (in amperes):

	H46C	H46D
Full Load	7.5	4.4
Locked Rotor	30.0	26.4

SCALE RANGE:

H46C—20 to 80 percent relative humidity.

H46D—10 to 60 percent relative humidity.

All models have ON and OFF position.

SENSING ELEMENT: Thin (1 mil), moisture sensitive nylon ribbon.

OPERATING DIFFERENTIAL: 4 to 6 percent, non-adjustable.

MAXIMUM INSTRUMENT TEMPERATURE: 125F.

SET POINT ADJUSTMENT: Control knob on face of controller.

MOUNTING MEANS: H46C and D models (when used in line-voltage circuits) must be mounted, with adapter plate, on a vertical switch box. H46D model (when used in low-voltage circuits) may be mounted on the adapter plate, less the switch box.

FINISH: Silver bronze, with light beige face.

CASE MATERIAL: Heavy folded sheet metal.

COVER MATERIAL: Molded Plastic.

WHEN SPECIFYING, INDICATE:—Model number.

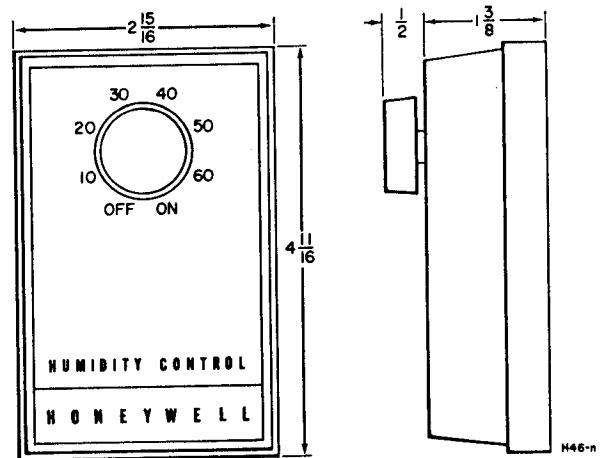
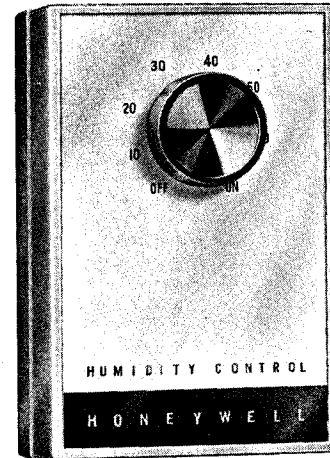


Fig. 1—Approximate Dimensions.

typical operation H46C: The H46C switch makes contact on an increase in relative humidity to the set point to start the dehumidifier. A decrease in relative humidity to the set point, minus the differential, breaks the switch contact to stop the dehumidifier.

typical operation H46D: The H46D switch makes contact on a decrease in relative humidity to the set point to start the humidifier. An increase in relative humidity to the set point, plus the differential, breaks the switch contacts to stop the humidifier.

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