

Two-Position Electric Room Humidistats General Instructions

APPLICATION

For low or line on-off control of humidifiers, dehumidifiers, valves, solenoid valves, compressors, relays, etc.

SPECIFICATIONS

Control Dial Settings: 10 to 90% RH. Humidity Sensing Element: Nylon ribbon.

Differential: 5% RH. **Environment:**

Ambient Temperature Limits,

Shipping and Storage, -40 to 140°F (-40 to 60).

Operating, 40 to 125°F (4 to 52). **Humidity**, 5 to 95% RH, non-condensing.

Location: NEMA 1, indoor location only.

Electrical Switch: Snap-acting SPDT (See Figure 1).

Ratings, See Table 1.

Connections: 6" color coded leads.

Cover:

HC-101, Beige plastic with Brushed Bronze Schneider

Electric Barber-Colman insert.

HC-101-770, Beige plastic with Brushed Bronze

Robertshaw insert.

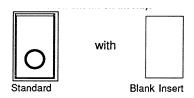
HC2-101, Beige metal with Brushed Bronze insert.

Mounting: Flush or surface switch boxes or, for 24V only, directly to wall.

Dimensions: 4-3/8" high x 2-7/8" wide x 1-5/8" deep (111 x 73×41). See Figure 2.

STANDARD MODELS INCLUDE

(Company Identification shown on insert):



One (1)	Humidistat with external setpoint
One (1)	Blank cover

One (1) Blank cover Two (2) #6 Mounting screws One (1) 5/64" Allen wrench

ACCESSORIES

Aux. mounting base		
Wall box cover plate		
Aux. mounting base		
Wire guard		
Cast guard		
Plastic guard		
Plastic guard		
Plastic guard		





HC-101-770
Underwriters
Laboratories Inc.



† Only HC21-1 with metal cover is CSA certified.

Table-1 Maximum Electrical Ratings.

AC Volt 50/60 Hz	FLA	LRA	Resistive Amps	Pilot Duty VA
24	-	-	8	80
120	7.2	43.2	8	345
240	3.6	21.6	8	345

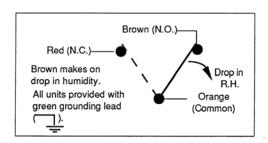


Figure-1 Switch Action and Terminal Identification.

PRE-INSTALLATION

Inspection

Inspect the carton for damage. If damaged, notify the appropriate carrier immediately. Inspect the device for obvious damage due to shipping. Return damaged products.

Required Installation Items

- Wiring Diagrams
- Tools (not provided):

DVM (digital volt-ohm meter)

Appropriate screwdriver for terminal connections and mounting screws

Appropriate drill bit for mounting screws

INSTALLATION

Caution:

- Installer must be a qualified, experienced technician.
- Disconnect power before installation to prevent electrical shock and equipment damage.
- Make all connections in accordance with electrical wiring diagram and in accordance with national and local electrical codes. Use copper conductors only.

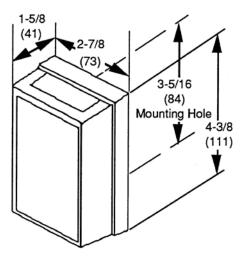


Figure-2 Mounting Dimensions.

MOUNTING PROCEDURE

The Humidstats require upright mounting on a flat vertical surface. Locate the unit where it will be exposed to unrestricted circulation of air, which represents the average humidity of the controlled space.

Caution: Avoid locations where excessive moisture, corrosive fumes, vibration or high ambient temperatures are present.

Unit may be installed on either a flush switch box, or a surface switch box, or directly on a wall (for the 24 volt applications only).

- 1. Pull the required wires.
- Make all electrical connections in accordance with job wiring diagram and in compliance with national and local electrical codes.
- To install, cover must be removed. Pull dial knob off, loosen screw and remove cover.
- Mount with #6 screws provided for switch box mounting.
 Different screws are required for wall mounting.

5. For external setpoint:

Re-install cover, tighten screw with 5/64" Allen wrench provided and replace dial knob.

For internal setpoint (See Figure 3):

- Before re-installing cover, turn the dial plate to desired setting and if locked dial setting is required, tighten dial lock screw (See Figure 3).
- b. With a pair of pliers, break off dial shaft at undercut.
- c. Remove cover insert from cover.
- Remove protective backing from adhesive on the blank insert provided, and press firmly in place on the cover.
- Re-install cover assembly and tighten cover screw with 5/64 in. Allen wrench provided.
- Remove protective film from face of cover insert.

FIELD REPAIR

Electrical Room Humidstats are not field repairable.

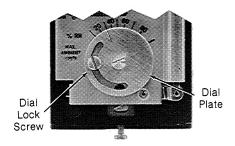


Figure-3 Locking Dial Feature.

