



ENVIRONMENTAL CONTROLS

1354 Clifford Avenue
P.O. Box 2940
Loves Park, IL, U.S.A. 61132-2940

HC-101 & HC2-101

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 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 x 41). See Figure 2.

STANDARD MODELS INCLUDE (Company Identification shown on insert.):



with



Standard

Blank Insert

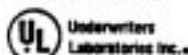
- One (1) Humidistat with external setpoint
- One (1) Blank cover
- Two (2) #6 mounting screws
- One (1) 5/64" Allen wrench

ACCESSORIES

- AT-504 Aux. mounting base
- AT-505 Wall box cover plate
- AT-546 Aux. mounting base
- AT-1103 Wire guard
- AT-1104 Cast guard
- AT-1105 Plastic guard
- AT-1155 Plastic guard
- AT-1165 Plastic guard



HC-101-770



HC-101



†Only HC2-101 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	60
120	7.2	43.2	8	345
240	3.6	21.6	8	345

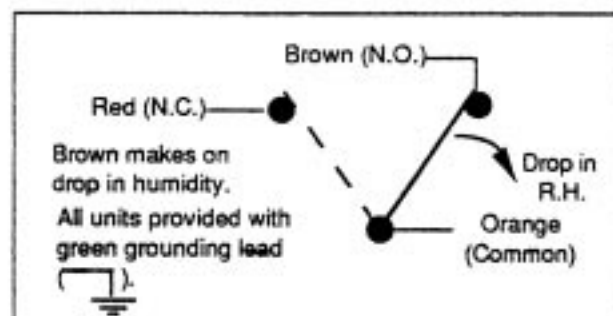


Figure 1. Switch Action and Terminal Identification.

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.*

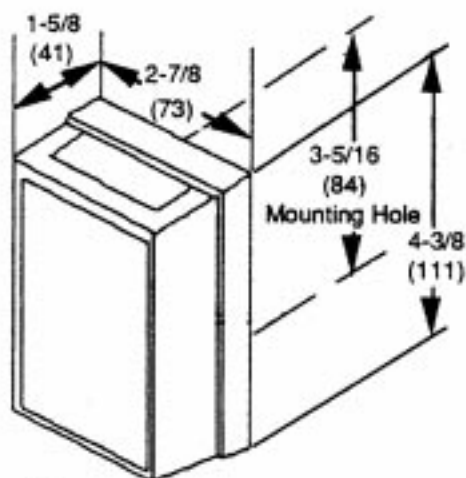


Figure 2. Mounting Dimensions

MOUNTING PROCEDURE

The Humidistats 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.
2. Make all electrical connections in accordance with job wiring diagram and in compliance with national and local electrical codes.
3. To install, cover must be removed. Pull dial knob off, loosen screw and remove cover.
4. 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):

- a. 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.
- d. Remove protective backing from adhesive on the blank insert provided, and press firmly in place on the cover.
- e. Re-install cover assembly and tighten cover screw with 5/64" Allen wrench provided.
- f. Remove protective film from face of cover insert.

FIELD REPAIR

Electric Room Humidistats are not field repairable.



Figure 3. Locking Dial Feature