

## Electric Duct Humidistat, Two-Position General Instructions

### APPLICATION

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

### SPECIFICATIONS

Control Dial Settings: 15 to 95% RH.  
Humidity Sensing Element: Nylon ribbon.  
Differential: 5% RH.  
Environment:

Ambient Temperature Limits,  
Shipping & Storage -40 to 140°F (-40 to 60°C).  
Operating 40 to 125°F (4 to 52°C).

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: Coded screw terminal.

Cover: Metal.

Mounting: The outside surface of return air duct.  
Mounting template and five mounting screws provided.

Dimensions: 4-3/4" x 6-1/2" x 3-1/2" (121 x 165 x 89).  
See Figure 2.

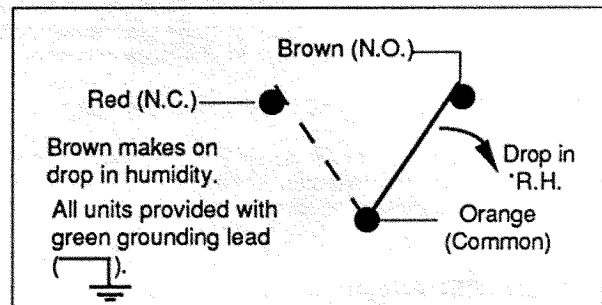
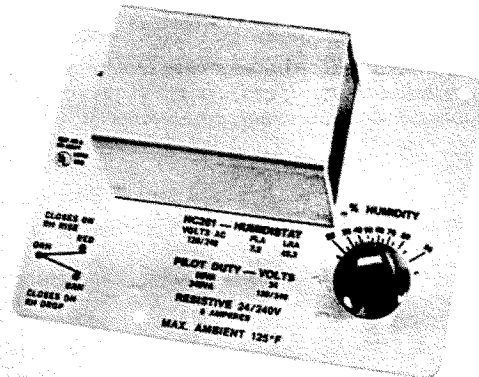


Figure 1. Switch Action and Terminal Identification.

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

### 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
- (5) Mounting screws (provided)
- (1) Cover screw (provided)

### 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.*
- NEMA Type 1 covers are intended for indoor use primarily to provide a degree of protection against contact with the enclosed components.

## MOUNTING PROCEDURE

Mount the HC-201 on the outside surface of the return air duct in a horizontal position where it is exposed to freely circulating air (other mounting positions are possible but not preferred).

### CAUTION

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

See Figure 3 for template dimensions for mounting.

1. Remove adhesive from the back of mounting template and press template to desired mounting location on duct.
2. Drill the four mounting holes as indicated on template, using No. 30, 1/8 inch (3 mm) diameter drill.
3. Cut out center portion of duct as outlined on template.
4. Using four (4) of the provided mounting screws, mount humidistat to the duct.
5. Remove the cover and make all electrical connections in accordance with job wiring diagram and in compliance with national and local electrical codes.
6. Replace the cover and install cover screw provided.
7. Turn dial knob to desired setting. If locked dial setting is desired, remove dial knob, tighten the dial lock screw and replace knob.

## FIELD REPAIR

The HC-201 Humidistat is not field repairable.

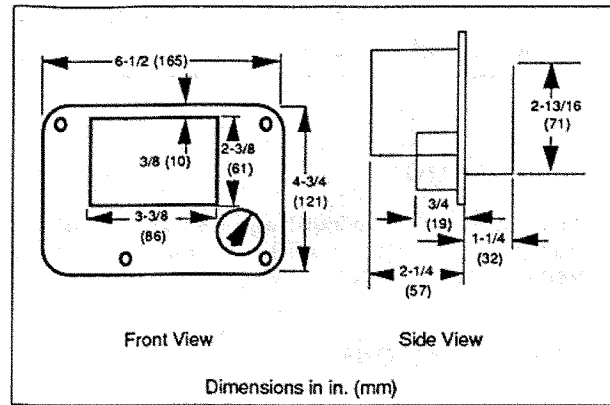


Figure 2. HC-201 Dimensions.

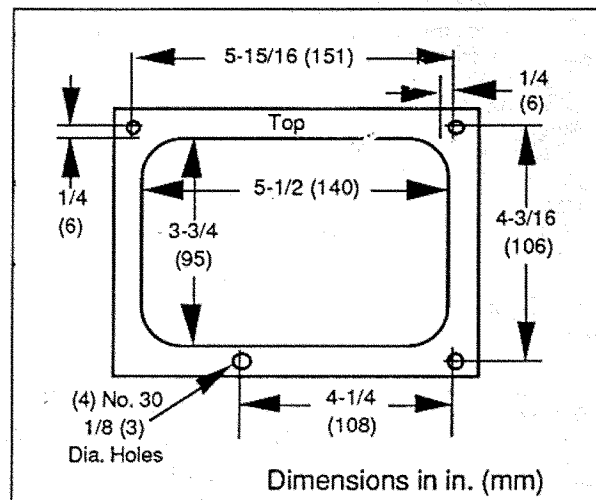


Figure 3. Template Dimensions.