

# 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% R.H. Humidity Sensing Element: Nylon ribbon

**Differential:** 5% R.H. **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% R.H., 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.

**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)



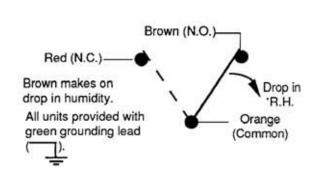


Figure-1 Switch Action and Terminal Identification.

#### 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.

- Remove adhesive from the back of mounting template and press template to desired mounting location on duct.
- 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.
- 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.

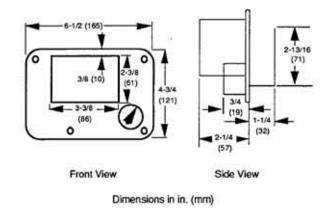


Figure-1 HC-201 Dimensions.

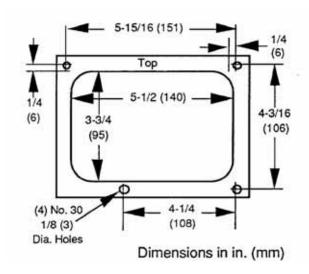


Figure-2 Template Dimensions.