

## H46P1001

### HUMIDITY CONTROLLER

#### SPECIFICATION DATA



#### Application

The H46P Humidity Controllers are used with portable and central unit humidifier or dehumidifier for RH control in air conditioning systems. The H46P has spdt switching to operate humidification equipment on RH fall or dehumidification equipment on RH rise.

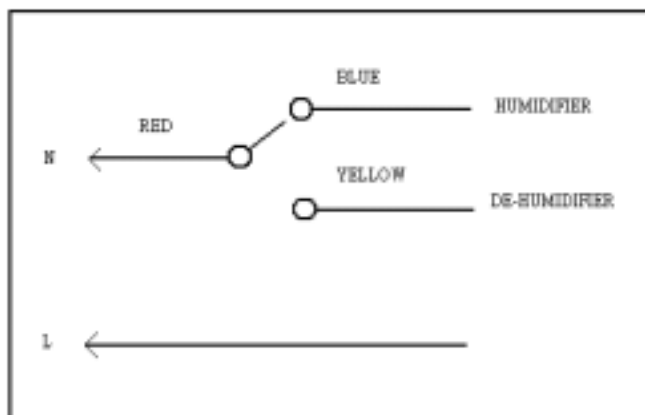
#### Features

- Positive ON-OFF settings permit manual operation of controlled equipment.
- Impact-resistant, molded plastic cover mounts on wall.
- Fully enclosed, dust free, spdt, snap-acting switch.
- Sensing element of thin, moisture sensitive nylon ribbon provides reliable operation even when ambient temperature condition change.

#### Specifications

Action:	ON-OFF
Control Range:	30~90% RH
Sensing Element	Nylon Ribbon
Differential Rating:	4 to 6% RH
Switching Action	SPDT
Temperature Rating :	50 to 125 F ( 10 to 52 C)
Dimensions:	119 mm (high), 75 mm (wide) 54 mm (deep)
Electric Rating	7.5A @ 120Vac 3.8A @ 240Vac

## Wiring Diagram



## Mounting H46P

- 1 Remove the setting knob.
- 2 Pull the cover forward from the device to remove.
- 3 Install a 2 x 3 in. (51 mm x 76 mm) vertical switch box at the selected location.
- 4 Using the two screws provided, fasten the adapter plate to the switch box as shown in Fig. 1.
- 5 Pull the wires from the switch box through the opening in the adapter plate and connect to the H46 leadwires with the solderless connectors provided. See Fig. 4 through 6 for a typical hookup.
- 6 Push the wires back into the switch box.
- 7 Place the H46 against the adapter plate, making certain the tab at the bottom of the plate fits into the notch on the H46.

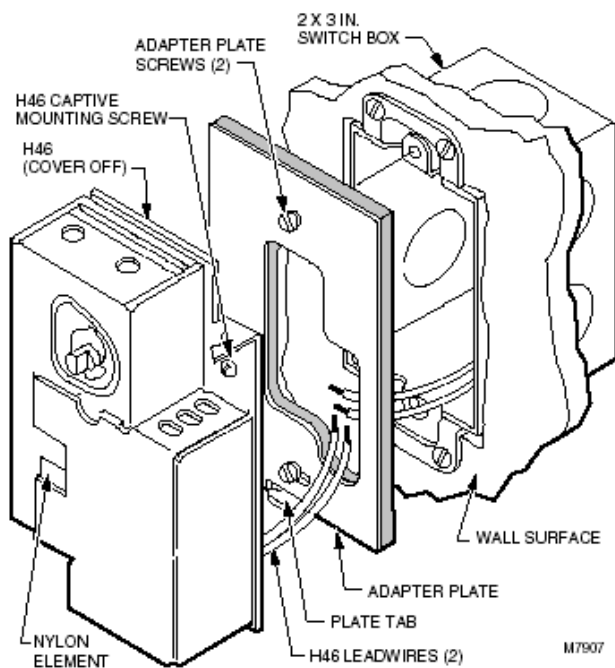


Fig. 1. Mounting H46P on vertical switch box

## SETTING AND ADJUSTMENT

The H46 makes contact on a relative humidity fall to the set point to start the humidifier. On an increase in relative humidity to the set point (plus the differential), the switch breaks contact to stop the humidifier. Turn the knob clockwise to the setting stop to place the H46 in the ON position. Turn the knob counterclockwise to the setting stop to place the H46 in the OFF position.

## CHECKOUT

After all mounting and wiring is completed, turn on the power supply. Place the system into operation by turning the setting knob toward the high end of the scale until the humidifier motor starts (on central unit humidifier systems, the furnace fan must be running before the humidifier starts). Turn the setting knob slowly toward the low end of the scale until the humidifier motor stops.

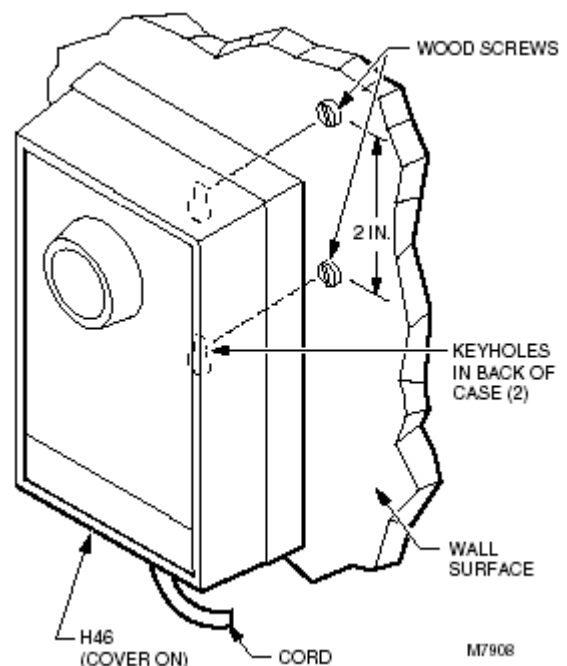


Fig. 2. Mounting H46P with two screws