

# Hoffman|Controls

## Installation & Operating Instructions

906 Series

## Electronic Thermostats

### Thermostat Hardware

- Thermostat cover
- Thermostat base
- Electrical box cover (for a 2" X 4" electrical box).

### Mounting Hardware

- Two #6 x 1/2" painted screws (secures electrical box cover to electrical box).
- Two #6 x 1" phillips screws (secures Thermostat base to electrical box cover).
- Three Wire nuts (secures stat wiring to field wiring).
- Two Wall anchors (for direct to wall mounting).

### Electrical Mounting

#### All 906 Series Thermostats – Figure 1 (Miniature & standard sizes)

1. Remove Thermostat cover from Thermostat base. (See Figure 3.)
2. Insert wires from Thermostat base through the 1/2" hole in the electrical box cover.
3. Wire Thermostat to field Thermostat cable using wire nuts. (Color-coded to assure proper connection.)
4. Mount electrical box cover to the electrical box with two #6 x 1/2" painted head screws. (See Figure 1.)

#### NOTE

Be sure the Thermostat base is centered on electrical box cover. If incorrectly installed, the Thermostat base will not symmetrically align with the electrical box cover.

5. Attach Thermostat base to electrical box cover with the two premounted #6 x 1" phillips screws. Do Not Remove nylon shims. The Thermostat base can be mounted with less than 1/16" clearance to the electrical box cover.

#### NOTE

Clearance is required to allow the Thermostat cover to snap onto the base.

#### CAUTION

Thermostat base should be firmly secured to the electrical box cover. Do not over tighten!

6. Place Thermostat cover onto Thermostat base, securing the left side first, then push right side until it "snaps" securely into place.

### Description

#### Direct To Wall Mounting – Figure 2

Miniature size, horizontal Thermostats

906-13 Series: 13AW, 13ADRW, 19CDRW, 19DDRW, 23W, and 23ADRW only

1. Remove Thermostat cover from Thermostat base. (See Figure 3.)
2. Wire Thermostat base to field Thermostat cable using wire nuts. (Color coded to assure proper connection.)
3. Place the Thermostat base on the wall at the proposed mounting location. Use the two premounted #6 x 1" phillips screws (in the Thermostat base) as a template to mark the location for the wall anchoring hole location.
4. Drill holes at markings for plastic wall anchors. Do Not Remove nylon shims (holding the pre-mounted screws in the Thermostat base).
5. Install wall anchors. Attach Thermostat base directly to the wall with the two premounted #6 x 1" phillips screws. Thermostat base will mount with less than 1/16" clearance to wall.
6. Place Thermostat cover onto Thermostat base, securing left side first, then push right side until it "snaps" securely into place.

#### Thermostat Release Cover

(Miniature size, horizontal Thermostats) Figure 3.

906-13 Series: 13AW, 13ADRW, 19CDRW, 19DDRW, 23W, and 23ADRW only

#### NOTE

The Thermostat assembly should be held against a solid surface, if it is not mounted on the wall.

1. When facing the Thermostat cover, place a small screwdriver between the 4th and 5th ribbed openings on the right side of the Thermostat cover.

- Push firmly to the left and to the back side of cover until latch releases the base from the cover.
- To attach the cover, place the cover onto the Thermostat base, securing left side first, then push right side until it “snaps” securely into place.

## Duct Sensor Installation

Thermostat	Remote Duct Sensor		
	Model No.	Output Signal	Material
906-13ADRW	490-0029-007	10K	Thermoplastic
906-13DRW	490-0029-007	10K	Thermoplastic
906-19CDRW	490-0037-007	mV	Stainless Steel
906-19DDRW	490-0037-007	mV	Stainless Steel
906-23ADRW	490-0029-007	mV	Thermoplastic

### Mounting Procedure

- Drill 5/16” size hole in the duct.
- Remove grommet from sensor.
- Install grommet into the 5/16” hole.
- Slide the sensor into the grommet.

## Mounting Instructions

Figures 1, 2, and 3 (below) depicts the miniature size, horizontal Thermostat; 906-13AW, 13ADRW, 19CDRW, 19DDRW, 23ADRW, 23W. The standard size, vertical Thermostats (906-13W and 906-13DRW not shown) are specially designed for electrical box mounting only.

**Figure 1** – Thermostat component assembly when mounting a Thermostat to an electrical box that is installed in the wall.

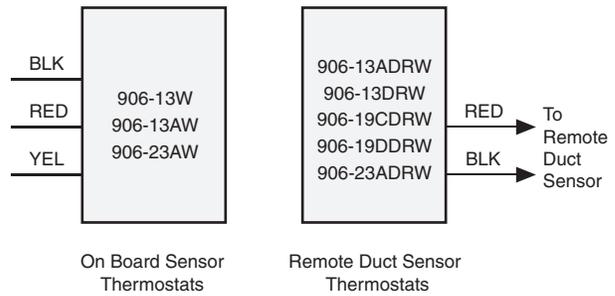
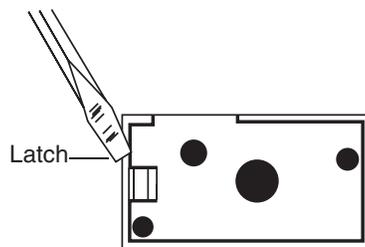
**Note:** Do not remove nylon shims (not shown) from the phillips screws.

**Figure 2** – Thermostat component assembly when mounting a Thermostat directly to a wall surface.

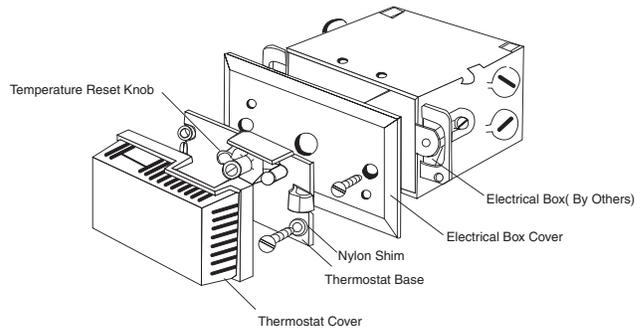
**Note:** Do not remove nylon shims (not shown) from the phillips screws.

**Figure 3** – the proper positioning of a small screwdriver to release the latch the secures the Thermostat cover to the Thermostat base.

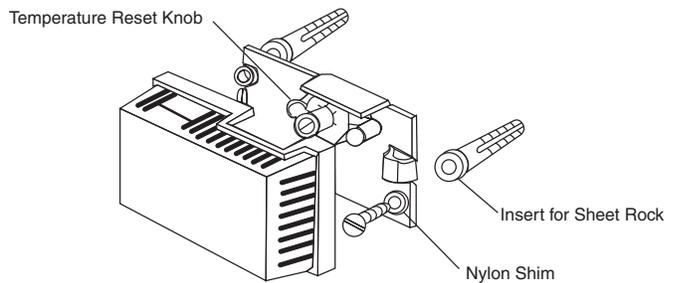
**Note:** The 906 Series Thermostat design allows only those persons with specific instructions entry to the internal components.



906 Series Thermostat Wiring



Electrical Box Mounting  
Figure 1



Direct to Wall Mounting  
Figure 2

Cover Release  
Figure 3

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