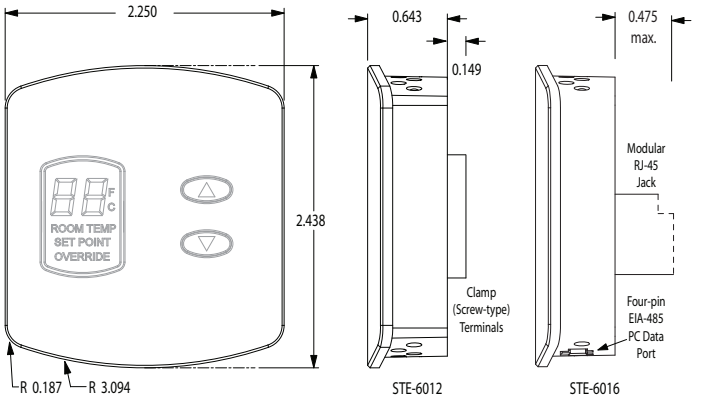
Installation Guide

Mounting

All dimensions are in inches



Model Number	Connections		
	Screw Clamp Terminals	RJ-45 Connector	EIA-485 Data Port
STE-6012-10	X		
STE-6016-10		X	X

Location and Cover Removal

Install the sensor on an inside wall where it can sense the average room temperature and be away from direct sunlight, heat sources, windows, air vents, and air circulation obstructions (curtains, furniture, etc.). It can be mounted on a hollow wall or (with a universal backplate HMO-6036/ HMO-6036W) to a 2 x 4 inch handy box.

The cover is held to the black, back panel by three, small, round pegs that fit in the holes of the cover. The bottom peg is on a tab and snaps into the center bottom hole.

1. With a small Phillips screwdriver or hex wrench, **press in and hold the tab button that snaps into the center hole on the bottom cover**.
2. Carefully pull or pry the back panel from the front cover.

Handy Box Installation (Recommended)

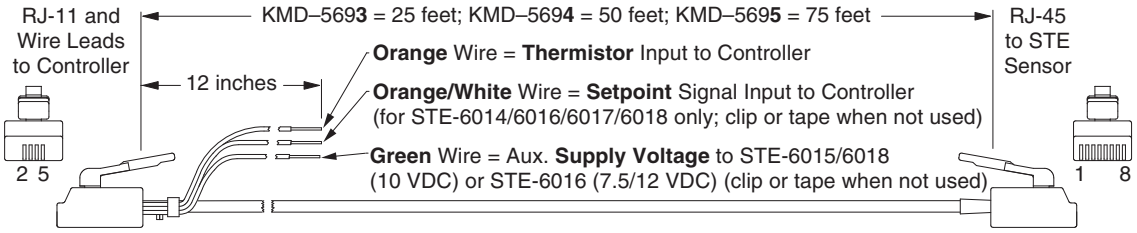
1. Mount a universal backplate HMO-6036 or HMO-6036W to the handy box using the two screws provided.
2. Remove the cover from the back panel.
3. Attach the back panel to the backplate using the two screws provided.
4. Attach the cable to the terminal block or jack according to the appropriate wiring diagram on the next page.
5. Replace the cover.

Hollow Wall Installation

1. Remove the cover from the back panel.
2. Using the back panel as a template, drill two holes for mounting screws (7/64 inches or 3 mm in diameter and 1.4 inches, 1-13/32 inches, or 35.6 mm apart) and cut a center hole (size needed is dependent on model) for the terminal block or jack.
3. Attach the back panel to the wall using two #6 self-threading screws. (Plastic anchors are recommended, and the size of the holes will then need adjusting.)
4. Attach the cable to the terminal block or jack according to the appropriate wiring diagram on the next page.
5. Replace the cover.

Wiring

STE-6016



RJ-11	RJ-45	Color
(Lead)	8	Orange
	7	N.C.
(Lead)	6	Green
3	5	Blue
4	4	Blue/White
5	3	Green/White
	2	N.C.
(Lead)	1	Orange/White

(*Cables crossed, 20 AWG*)

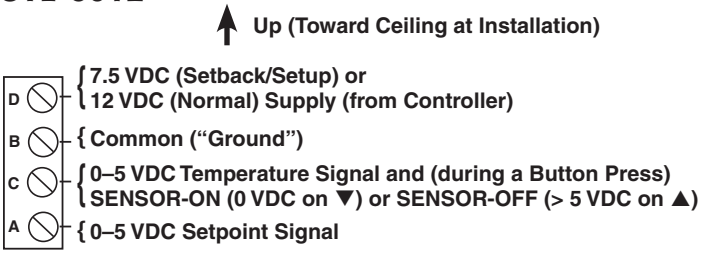
Connecting this model to a KMC controller requires a special cable with (on the sensor end) an RJ-45 connector and (on the controller end) an RJ-11 connector with an additional three wires (as relevant to the model) for controller inputs. Purchasing preassembled cables from KMC is more **cost-effective** and **reliable** than creating custom cables in the field. Use one of the following cables:

- KMD-569**3** = 25 feet
- KMD-569**4** = 50 feet
- KMD-569**5** = 75 feet

The three additional wire connections to the controller are:

- **Orange** is the **thermistor (temperature voltage)** signal to the controller's appropriate input
- **Orange/white** is the **setpoint** signal to the controller's appropriate input
- **Green** is the **supply voltage** of 7.5/12 VDC from an output of the controller press

STE-6012



NOTE: In the STE-6012/6016, pressing the ▼ **Down button** momentarily sends **0 VDC** to the controller for a **SENSOR-ON** signal; pressing the ▲ **Up button** sends **greater than 5 VDC** for a **SENSOR-OFF** signal. When in normal/override mode, pressing the Down or Up button raises or lowers the setpoint voltage. When in setback/setup mode, pressing either button also selects override mode.

Maintenance

Careful installation will also ensure long-term reliability and performance. Remove dust as necessary from holes in top and bottom. Clean with a soft, damp cloth and mild soap.

More Information

For general product information, see the **STE-6000 Series Room Temperature Sensors/Transmitters Data Sheet** on the KMC Controls web site.

For mounting considerations, network connection, controller configuration, programming, troubleshooting, and other information, see the **STE-6012/6016 Application Guide**.

Important Notices

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