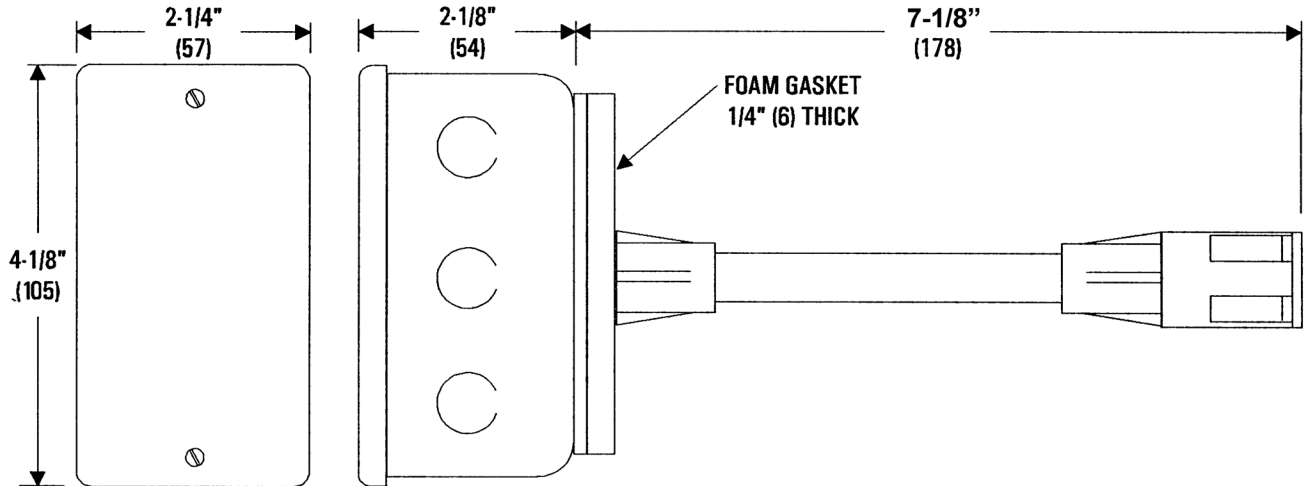


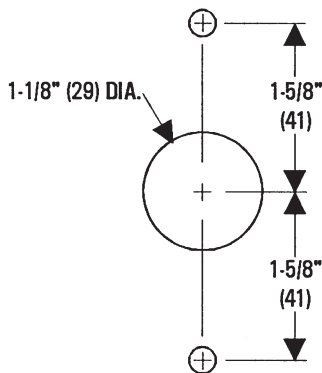
## Installation Guide

### Mounting



**NOTE:** The sensor should be installed in a straight section of duct away from heating, cooling, or humidifier elements.

1. In the duct, drill a 1-1/8" clearance hole (for the sensor probe).
2. Measure 1-5/8" to either side of the center of the clearance hole and drill two holes for mounting screws.



3. From the THE-1002, remove the two cover screws, cover, and the desired knock-out for the conduit.
4. Insert the THE-1002 probe into the duct.
5. Insert the two mounting screws and tighten them.
6. Fasten conduit to the THE-1002.
7. Through the conduit, feed wires to the controller and make the appropriate connections. (See the Wiring section on the next page.)
8. After wiring, plug the conduit with plumber's putty, painter's putty, caulk, or other sealant to prevent air infiltration.
9. Reinstall the cover and cover screws. Be sure the screws go through the mounting holes of the relay module, securing the back of the relay module to the back side of the cover.

## Wiring

For power, connect a 24 VAC, Class 2 only, transformer (see the diagram).

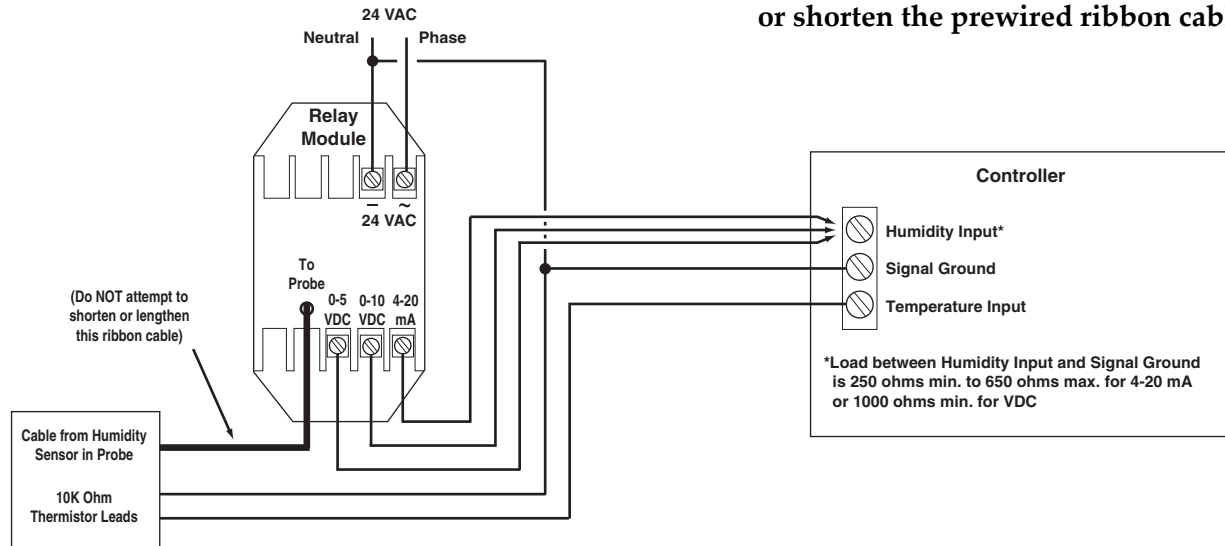
Connect the desired humidity output (0–5 VDC, 0–10 VDC, or 4–20 mA) from the THE-1002 to the controller's humidity input. (Set the controller's pull-up resistor accordingly.)

**NOTE:** The thermistor and the humidity output have a common output signal ground.

Connect the temperature output (thermistor leads) from the THE-1002 to the controller's temperature input. Make wire connections with either butt-splices or solder. Using wire nuts is not recommended. (Set the controller's pull-up resistor accordingly.)

**NOTE:** The two-wire thermistor leads are polarity insensitive.

**NOTE:** The relay module mounted inside the electrical housing is hard-wired to the sensing probe. **Do not attempt to lengthen or shorten the prewired ribbon cable.**



## More Information

For THE-102 specifications and accessory information, see the [THE-1002 Data Sheet](#).

For controller configuration of the **humidity input**, see the relevant documentation for the controller and software. For controller configuration of the **thermistor input** as well as mounting considerations, troubleshooting, and other information, see also the **relevant** sections in the [STE-6010/6011/6013/6015 Application Guide](#).



## Maintenance

Careful installation will also ensure long-term reliability and performance. Remove dust as necessary from the sensing tube.

## Important Notices

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