Installation Guide

Mounting

These models are designed for monitoring fluid temperatures in situations where an immersion sensor cannot be used. Mount the probe in direct physical contact with the pipe and under pipe insulation.

1. For the STE-1454 (only), mount the included case (see the diagram) in a suitable location close to where the probe will be attached to the pipe. Attach conduit to it as needed.
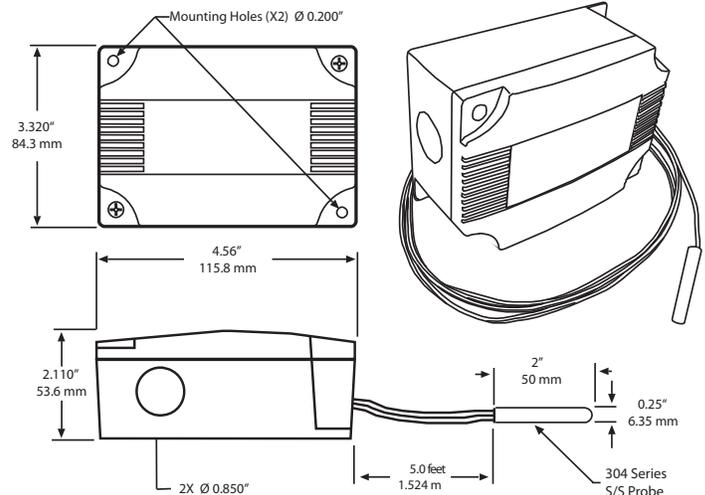
NOTE: The STE-1455 does not include an enclosure.

2. From the probe area, remove any pipe insulation and clean the exterior of the pipe to ensure good contact and heat transfer.
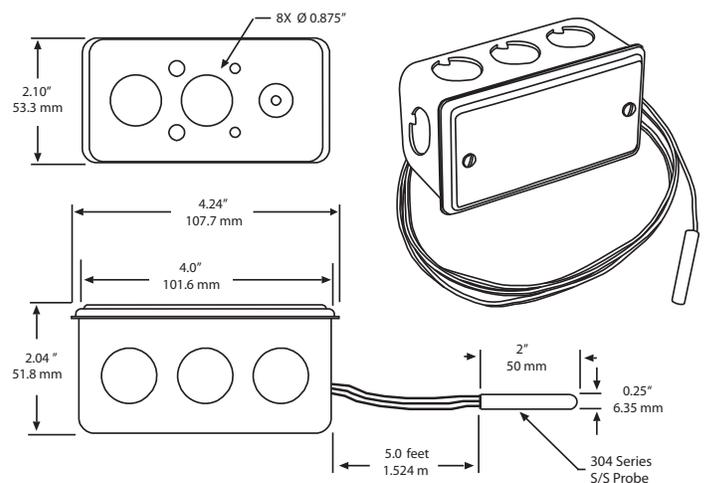
NOTE: For best results, apply thermal conductive compound to the pipe underneath the sensor.

3. Place the sensor probe in direct contact with the pipe and strap the probe to the pipe using metal pipe straps or cable ties.

4. Any extra lead length can be wound around the pipe for extra security.

5. Wrap, or replace, insulation around the sensor to reduce the effect of ambient air temperature.

Plastic Enclosure

Metal Enclosure

Connections and Wiring

1. For the STE-1454, feed the wire leads through the hole in the enclosure and secure with the included grommet.

2. Make connections to the two wire leads with either butt-splices or solder. Using wire nuts is **not** recommended.

NOTE: The two-wire sensor is not polarity sensitive.

Configuration

For controller configuration, see the **Type III Sensors Applications Guide** on the KMC web site.

Maintenance

No routine maintenance is required. Each component is designed for dependable, long-term reliability and performance. Careful installation will also ensure long term reliability and performance.
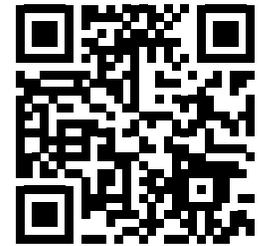
Specifications

Sensor	Type III thermistor, 10K ohm @ 77° F (25° C)
Temperature Limits	–4 to 221° F (–20 to 105° C)
Wiring	5 foot (1.52 m) PVC insulated, parallel bonded, 2 wire pigtail, 22 AWG
Probe Material	304 series stainless steel
Probe Dimensions	2" (50 mm) length by 0.25" (6.35 mm) diameter
Enclosure (STE-1454 Only)	
	Standard: flame-retardant plastic
	Metal: Galvanized steel

More Information

For **additional information**, see the **STE-1400 Series Data Sheet** on the KMC web site.

For **troubleshooting, controller configuration, and other information**, see the **Type III Sensors Applications Guide** on the KMC web site.

Important Notices

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