

# Rosemount™ 214A Temperature Sensor

## Cut-to-Fit Instructions



**NOTICE**

This guide provides basic guidelines for Rosemount 214A Sensor models.

If the sensor was ordered assembled to a temperature thermowell or transmitter, see the appropriate product literature for information on configuration and hazardous locations certifications.

**⚠ WARNING**

**Explosions could result in death or serious injury.**

Installation of this sensor in an explosive environment must be in accordance with the appropriate local, national, and international standards, codes, and practices.

**Conduit/cable entries**

- Unless marked, the conduit/cable entries in the transmitter housing use a 1/2–14 NPT thread form. Entries marked “M20” are M20 x 1.5 thread form. On devices with multiple conduit entries, all conduit entries will have the same thread form.
- When installing in a hazardous location, use only appropriately listed or Ex certified flameproof/dust plugs, adapters, or glands in cable/conduit entries.
- Only use plugs, adapters, glands, or conduit with a compatible thread form when closing these entries.

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## 1.0 Cut-to-fit instructions

1. Remove plastic bushing from end of the tube.
2. Remove the RTD sensor from the outer tube.
3. Mark the tube to the desired length.

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**Note**

The minimum recommended cut length is 3<sup>1</sup>/<sub>2</sub> inches.

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4. Cut the tube to the desired length.

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**Note**

Use a high quality tubing cutter or abrasion saw designed to cut stainless steel tubing or conduit. The cutter must have a sharp blade to prevent “rolling in” during cutting of the tubing.

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5. Discard the hollow tube section and carefully deburr the cut end.
6. Reinsert the RTD sensor and ensure the RTD is located at the bottom of the tube.
7. Install plastic bushing in the top of the tube.
8. (optional) Add epoxy or High Temperature RTV around the bushing and tube connection for moisture resistance and to ensure fit.



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