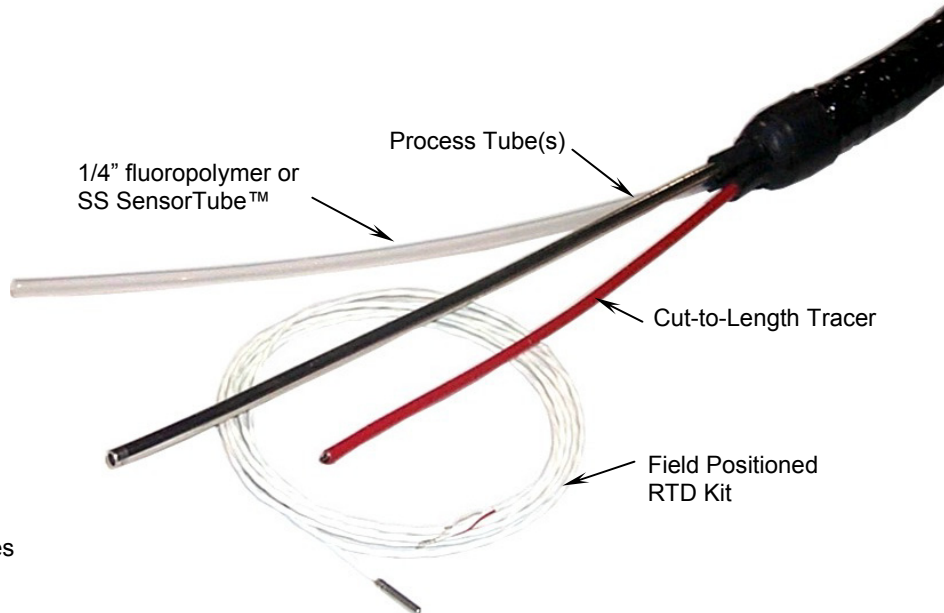


Cut-To-Length Bulk Bundle for Field Installed Temperature Sensors



O'Brien bulk bundle with SensorTube reduces design and installation time.

O'Brien TRACEPAK® / STACKPAK tubing bundles can be configured to meet your design requirements.

Standard design bundles with SensorTube are supplied in long continuous lengths. The advantage is that the expense and uncertainty of estimating an anticipated run length for factory installed temperature sensors is eliminated.¹ The SensorTube is supplied in the bundle along with your specified process tube. Once installed an RTD kit is easily inserted in the SensorTube providing temperature readings that closely correlate with individual factory installed sensors. (See Figure 1)

RTD Kit includes a 100 Ohm 3 wire sensor with twenty feet of fluoropolymer jacketed leads and an entry seal.

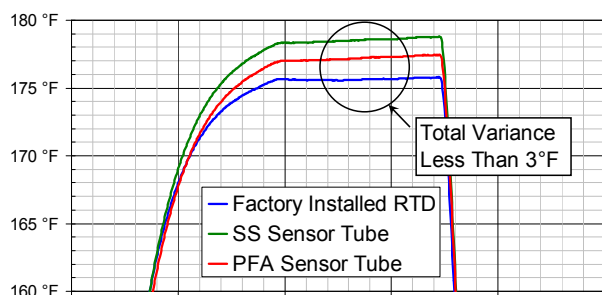


Figure 1

SensorTube creates a pathway for the RTD kit to be positioned up to fifteen feet from the control end without any special tools. The specially sized bulb and lead construction of the kit will travel a minimum of fifteen feet into the bundle even after it is installed. The RTD kit can be inserted through more than five ninety degree bends without problems.

O'Brien bulk bundle is designed with a high temperature self regulating heater providing cut-to-length convenience. The bundle may be cut at any point without the worry of creating 'dead zones' found in constant wattage heaters.

1. The economic breakpoint for factory installed temperature sensors is between 175 and 200 feet. This assumes a total of two manhours for each run to estimate the installed length, specification, and purchasing documents. Bulk sensor tube bundle may provide additional savings by reducing or eliminating multiple purchase orders, stocking, expediting fees, shipping and site coordination expenses.

O'Brien 1017 Series controllers are compact, full featured, microprocessor based single and dual point heat trace controllers. They provide control and monitoring of TRACEPAK and STACKPAK tubing bundles designed for freeze protection and temperature maintenance with soft start, line sensing, ambient sensing, proportional ambient sensing, and power limiting functions. The controllers can be set to monitor and alarm high and low temperature, high and low current, ground fault trip and voltage.

The 1017 series controllers are supplied with a solid-state relay (SSR) for use in nonhazardous and Class I Div. 2 / Zone 2 hazardous areas.



Power Connections, Termination Kits Heat Shrink Boots and Entry Seals complete the installation. Approved power connection and termination kits connect the tracer to the controller or other power junction box. Heat shrink end seal boots and entry fittings provide waterproof terminations for the bundle and entry into the sample conditioning cabinet.



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