



APPLICATION SPOTLIGHT

Accurate and Non-intrusive Temperature Measurement for Small Line Sizes

Challenge

Installing a thermowell onto a small line size can be difficult. It adds additional design complexity and costs, and the thermowell itself may become an obstruction to fluid flow. Oftentimes, temperature measurements on small line sizes are ignored.

Our Solution

Rosemount™ X-well™ Technology accurately measures process temperature without the need for a thermowell or process penetration, allowing for unobstructed flow of all gases, liquids, and suspended solids.

- Quick and easy installation without the need for a process shutdown or piping redesign
- No process penetration or complicated pipe design and installation
- No contact with the process material
- More accurate than a standard surface temperature sensor
- Easily works on line sizes down to 1/2 inch

Accurately measure line sizes as small as 1/2 inch with Rosemount X-well Technology



Rosemount X-well™ Technology



Rosemount X-well Technology with WirelessHART®

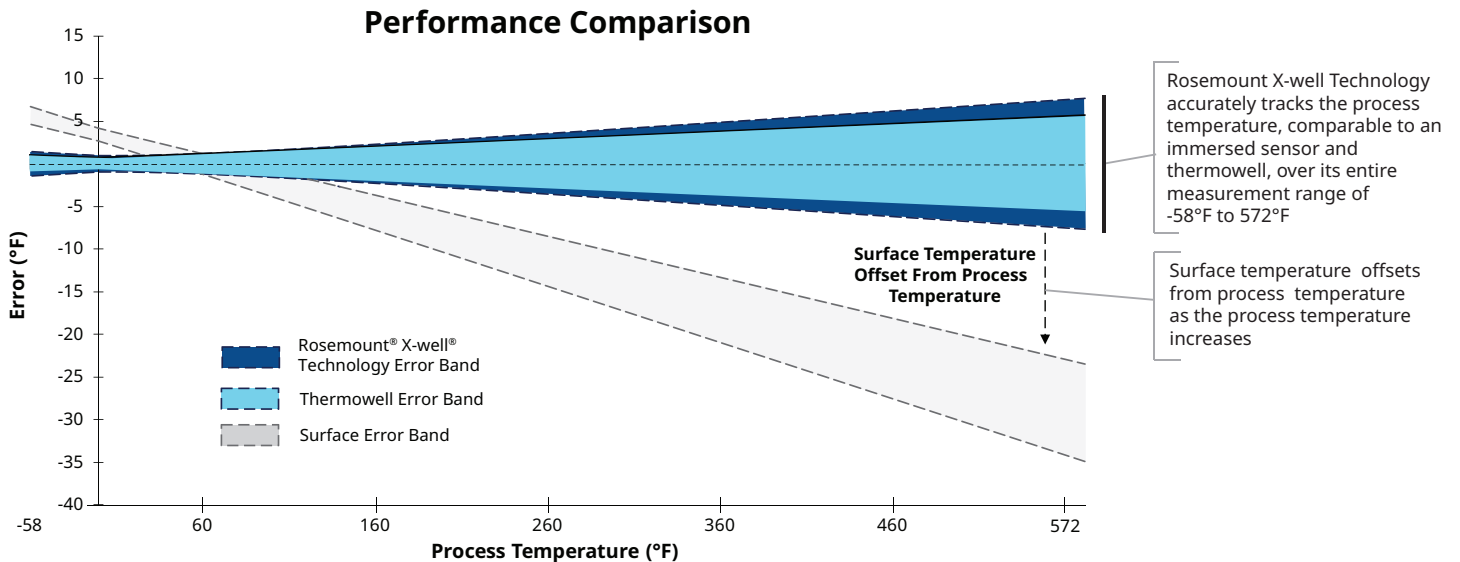
How It Works

Rosemount X-well Technology accounts for ambient temperature, heat loss through the pipe wall, and many other factors using a patented heat transfer algorithm. This provides an accurate temperature measurement across the entire temperature range.

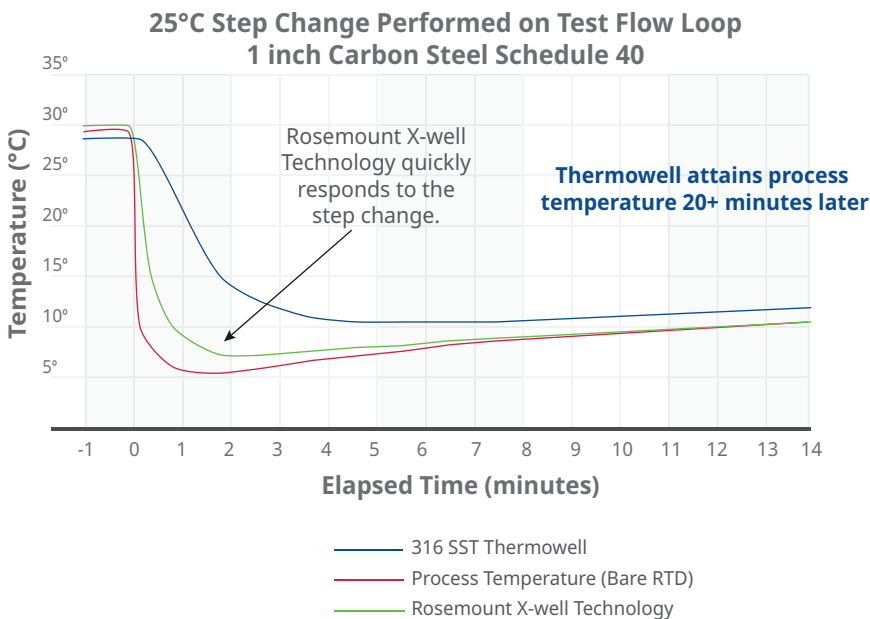
APPLICATION SPOTLIGHT

Accurate and Non-intrusive Temperature Measurement for Small Line Sizes

Rosemount X-well Technology outperforms surface mounted temperature measurements



Rosemount X-well Technology responds faster in small line sizes



Internal testing performed on test flow loop.



The Emerson logo is a trademark and service mark of Emerson Electric Co.
Brand logotype are registered trademarks of one of the Emerson family of companies.
All other marks are the property of their respective owners.
© 2024 Emerson Electric Co.
All rights reserved.

For more information, visit
[Emerson.com](https://www.emerson.com)

00807-0400-4648_RevAB

