Temperature Measurement Assembly with Rosemount™ X-well™ Technology Accurately measure process temperature without a thermowell or process penetration



CHALLENGE

Surface temperature measurement does not provide an accurate or repeatable representation of the internal process temperature. Conversely, while accurate, temperature measurement points using thermowells are complex to design and install, increase the risk of process leaks and lead to high maintenance costs.

OUR SOLUTION

Rosemount X-well Technology provides a complete point solution for accurately measuring internal process temperature without the requirement of a thermowell or process penetration. This capability delivers an accurate process temperature while simplifying specification, installation and maintenance, and eliminating possible leak points.

HOW IT WORKS

- Rosemount X-well Technology calculates a repeatable, accurate internal process temperature measurement based on thermal conductivity properties of the temperature assembly and process piping
- Industry first process temperature accuracy specification from a surface measurement

WHAT IF YOU COULD ACCURATELY MEASURE PROCESS TEMPERATURE WHILE...

- ...reducing installation time and cost?
- ...improving plant availability and lowering maintenance costs?
- ...improving environmental compliance and safety?



Rosemount 648 and 0085 Temperature Measurement Assembly with Rosemount X-well Technology

For more information visit
www.Emerson.com/Rosemount-X-well
or contact your local Emerson™ Sales Representative



Temperature Measurement Assembly with Rosemount X-well Technology

OPEX SAVINGS

Increase Production	Reliability + Safety	Reduce Life Cycle Cost
Add temperature measurement points without process shutdown	No possible leak points	Reduced maintenance frequency
 Increased throughput 	Measurement point does not	Simplifies calibration
Accurate temperature measurement • Improved quality • Energy savings	• Wake frequency • Corrosion • Abrasive fluids	Easier maintenance • No removal for pigs • No lockout/tagout
3, 44 35	 Viscous fluids Bending stresses	Redesign not required for retrofit

ORDFRING

The Rosemount 3144P Temperature Transmitter or 648 Wireless Temperature Transmitter can be ordered with Rosemount X-well Technology via the "PT" model code option and must be factory configured with the addition of the "C1" model option code which requires user supplied information of process pipe material and pipe schedule. When using Rosemount X-well Technology, the Rosemount 3144P or 648 is required to be assembled to the Rosemount 0085 Pipe Clamp RTD Sensor in a direct mount configuration.

Enhanced performance

PT

Temperature Measurement Assembly with Rosemount X-well Technology

EMERSON'S FULL PORTFOLIO OF TEMPERATURE SOLUTIONS



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