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?

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

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

**ORDERING**

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**

| Temperature Thermowells | Temperature Sensors | Wireless Temperature Transmitters | Wired Temperature Transmitters |

Consider it Solved.

Emerson Automation Solutions supports you with innovative technologies and expertise to address your toughest challenges. For more information, visit [Emerson.com/Rosemount-X-well](http://Emerson.com/Rosemount-X-well)