**Challenge**

Traditional insertion-style temperature measurement points using thermowells are challenging to design and specify, complex and time consuming to install and present many project risks.

Surface point measurements do not meet the specified performance requirements.

**Our Solution**

Rosemount X-well Technology provides a complete point solution for accurately measuring process temperature without the requirement of a thermowell or process penetration. This capability simplifies temperature measurement point specification and installation, while reducing start up time and lowering project risk.

**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.

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For more information visit [www.Emerson.com/Rosemount-X-well](http://www.Emerson.com/Rosemount-X-well) or contact your local Emerson™ Sales Representative.
SPECIFICATION AND 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.

<table>
<thead>
<tr>
<th>BEFORE</th>
<th>AFTER</th>
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<tbody>
<tr>
<td>Thermowell</td>
<td>Rosemount X-Well Technology</td>
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**Must specify:**
- Length
- Material
- Stem profile
- Process connection
- Process information for wake frequency calculations (flowrate, pressure, temperature, viscosity)

**Must specify:**
- Pipe material, diameter, and schedule

The Enhanced performance of the Rosemount X-well Technology provides improved accuracy and reliability in temperature measurement.

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