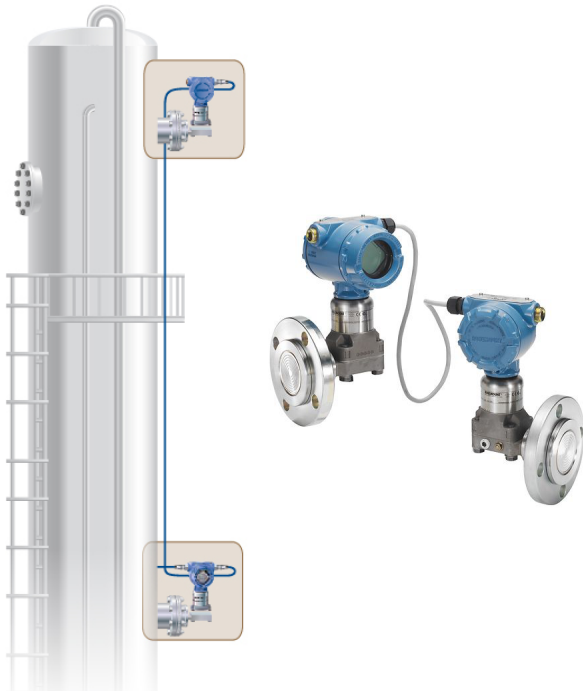


# ROSEMOUNT ELECTRONIC REMOTE SENSOR (ERS) VS TUNED-SYSTEM ASSEMBLY

Best practices for using DP Level system technologies.

## Rosemount™ Solutions

Knowing what to choose to manage your application is just as important as the components themselves. Here is look at the benefits of each system to give guidelines around the best choice for your application.



## Rosemount™ ERS™ System Benefits

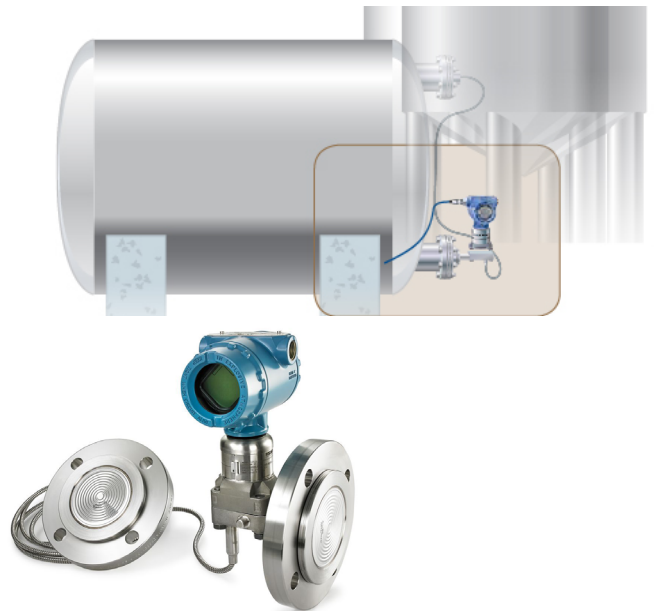
Two synchronized sensors, that electronically calculate differential and static pressure, and eliminate temperature effects.

- **Faster response time** than traditional systems
- **Simpler** process with elimination of heat tracing
- **Reduced maintenance** by removing the need to check for leaks, condensation and evaporation
- **Multi-Variable measurement** eliminates the cost of adding a secondary system to measure an application static

## Rosemount™ Tuned-System™ Assembly Benefits

System is constructed of one sensor and two seals, one direct mount on the high-pressure side and a capillary remote mount on the low pressure side.

- Variety of remote seals and flanges'
- Consistent measurement readability across all static pressure ranges, including high pressure
- Reduced temperature induced errors



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# ROSEMOUNT ELECTRONIC REMOTE SENSOR (ERS) VS TUNED-SYSTEM

System Type	Tuned-System Assembly	ERS System
<b>What</b>	<ul style="list-style-type: none"> <li>• Low pressure side capillary and direct mount high pressure side</li> </ul>	<ul style="list-style-type: none"> <li>• Two electronically linked sensors, DP is calculated electronically</li> <li>• Provides 3 process variable, P hi, P low, DP</li> </ul>
<b>When to use</b> <small>(note: these are general guidelines of when to use each measurement type, an application sizing should be completed to understand full accuracy and device need for the application)</small>	<ul style="list-style-type: none"> <li>• Level span less than 10 ft and Static pressure is more than 360 psi</li> <li>• Level Span is between 10 ft and 32 ft and pressure is more than 145 psi</li> </ul>	<ul style="list-style-type: none"> <li>• Level span less than 10 ft and static pressure less than 145 psi</li> <li>• Level span is between 10 ft to 32 ft and pressure less than 145 psi</li> <li>• Level span is more than 32ft</li> <li>• Level span less than 10ft and static pressure is between 145 psi and 360 psi</li> </ul>
<b>Where to use (Examples)</b>	<ul style="list-style-type: none"> <li>• Short spans</li> <li>• High pressure and stable temperature environments</li> <li>• Knockout Drum</li> <li>• DP across pumps</li> <li>• Short tanks</li> <li>• Hydro cracking</li> </ul>	<ul style="list-style-type: none"> <li>• Tall tanks</li> <li>• Distillation columns</li> <li>• Kraft pulping vessels</li> <li>• Enzyme fermentation</li> <li>• Alkylation reaction</li> <li>• Beer fermentation</li> </ul>
<b>Hardware</b>	<ul style="list-style-type: none"> <li>• One sensor</li> <li>• Capillary</li> <li>• Process connection of choice</li> </ul>	<ul style="list-style-type: none"> <li>• Two sensors</li> <li>• A connecting cable</li> <li>• Process connection of choice</li> </ul>

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MS-00807-0400-4804 Rev AA

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