Rosemount High Density Temperature Measurement



Simplify Your Project



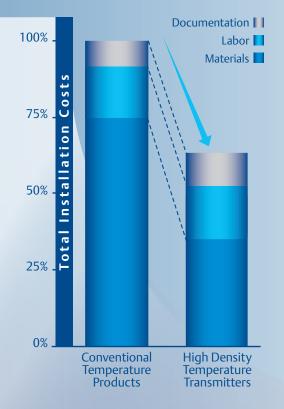


848

Balancing Project Risk is a Daunting Challenge

Emerson's approach to temperature measurement can help lower the risk of budget overruns and start-up delays. Rosemount High Density transmitters reduce installation complexities, lower costs and simplify your project.

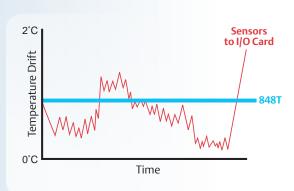




Reduce Cost with Less Wiring

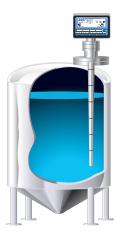
Wiring infrastructure such as conduit, cable trays and marshalling panels add significant cost to a project. Rosemount High Density transmitters measure multiple temperatures to reduce or eliminate wiring infrastructure and provide significant cost savings.





Improve Performance with Reliable Measurement

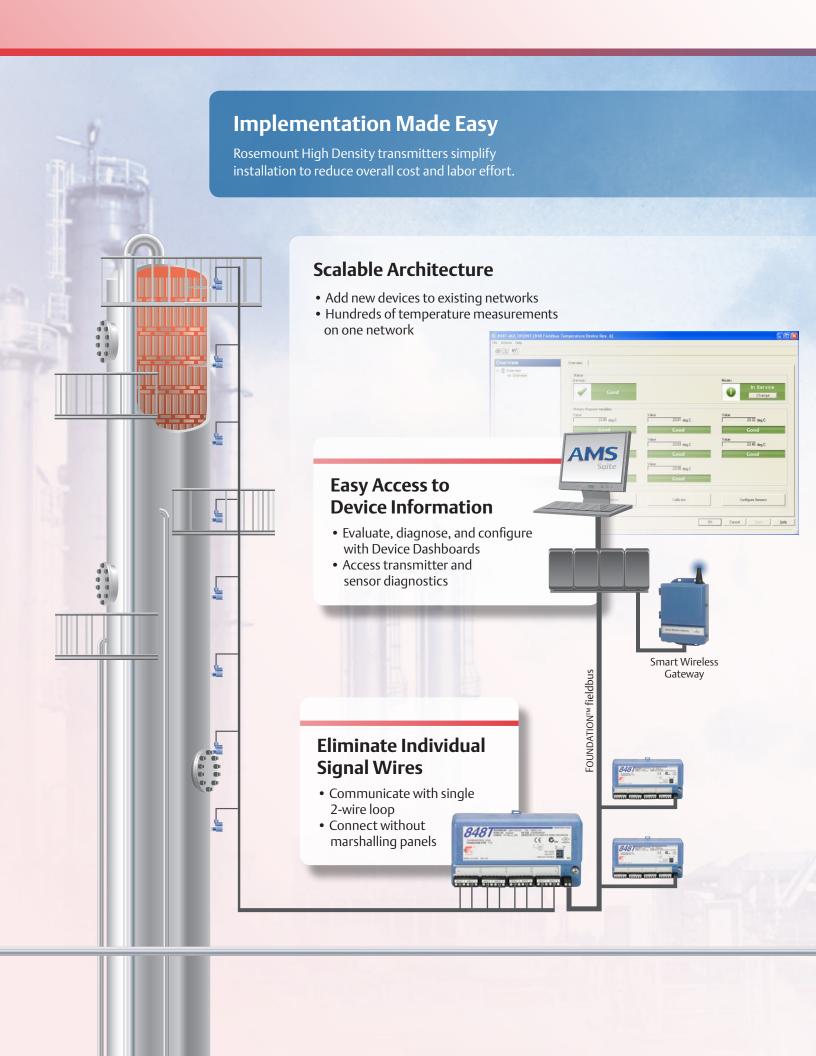
Long sensor wiring runs are susceptible to drift giving unreliable information. Rosemount High Density transmitters shorten sensor wiring lengths and filter electrical noise to provide stable and accurate measurement.



Rosemount 848T Temperature Transmitter with Multipoint Sensor

Reduce Complexity with Complete Solutions

Managing multiple temperature vendors for a project adds complexity. Emerson manufactures transmitters and sensors globally to meet your project needs.







Rosemount 848T Wireless Temperature Transmitter

- 4 Independently configurable inputs
- Thermocouple, RTD, ohm, mV, and 4-20 mA inputs
- Mounts anywhere with field hardened enclosure
- Intrinsically safe Power Module for easy replacement in hazardous areas
- Uses standard HART® configuration tools to integrate into WirelessHART™ network
- Up to 400 measurements on a single Smart Wireless Gateway

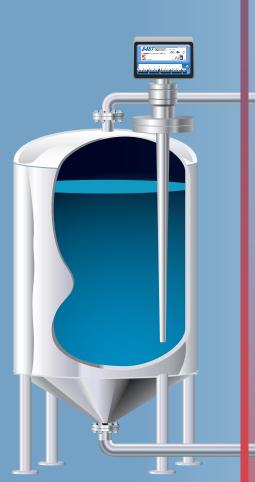


Rosemount 848T Temperature Transmitter

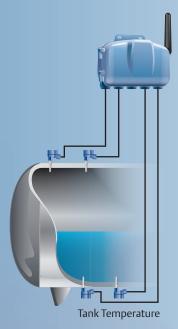
- 8 Independently configurable inputs
- Thermocouple, RTD, ohm, mV, and 4-20 mA inputs
- DIN rail mounting for flexible installation practices
- Calculates minimum, maximum and average
- Up to 128 measurements on one FOUNDATION™ fieldbus segment

Deliver Results with Innovative Solutions

From preventing unexpected shutdowns to reducing installation costs, Rosemount High Density transmitters have proven to deliver positive business results. Our customers have simplified their projects by installing Rosemount 848T temperature transmitters in their plant.



Reactor Temperature Profiling



Measure Tank Temperature to Improve Product Quality

Challenge:

- Maintaining tank temperature was difficult
- Existing measurement wired thermocouples directly to control room
- Drifting measurement increased risk of producing off-spec product

Solution:

- Rosemount 848T Wireless reduced sensor wiring and eliminated drift
- Product quality was improved and installation costs were reduced by \$5,500 per point

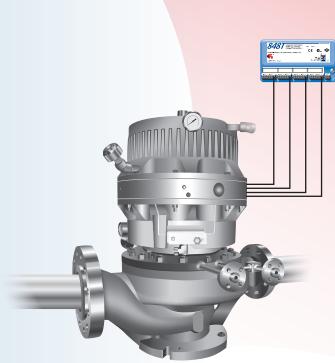
Improve Reactor Control to Prevent Shutdown

Challenge:

- Control of reactor during polymerization process was needed to ensure product quality
- Sensor wired directly to control room incurred high material and labor costs
- Reactor could become plugged causing a two to three week shutdown

Solution:

- Rosemount 848T profiled 16 temperature points in reactor dome
- Detected a polymer buildup and prevented a costly shutdown



Bearing Temperature

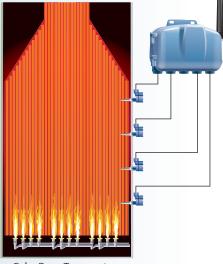
Prevent Compressor Failure by Monitoring Bearing Temperature

Challenge:

- Monitoring bearing temperature to prevent gas compressor failure
- Local temperature monitoring did not report information to control system
- Gas compressor failure would cause shutdown of hydrocracker

Solution:

- Rosemount 848T detected damage to the bearing preventing a hydrocracker shutdown
- Saved over 70% in wiring cost amounting to \$20,000



Coke Oven Temperature

Monitor Oven Temperature to Reduce Operation Costs

Challenge:

- Difficulties monitoring and controlling coke oven temperatures
- Existing measurement was unreliable and operator rounds were costly
- Unreliable measurement risked oven collapse and energy waste

Solution:

- Rosemount 848T Wireless provided reliable measurement ensuring proper oven temperature
- Eliminated operator rounds and provided access to process information

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