



ROSEMOUNT™ 644 TEMPERATURE TRANSMITTERS

Reliable Performance and Increased Functionality

Rosemount™ 644 Temperature Transmitters offer reliable performance, improved usability, and increased application flexibility.

The Rosemount 644 Temperature Transmitter delivers industry proven reliability and offers excellent performance capabilities to meet your temperature measurement requirements. Choose from various form factors, enclosure styles, and materials for a customized product that fits your needs.

Avoid Unexpected Process Shutdowns

Basic and advanced diagnostic suites, enabled through Dual Input Capability, provide insight into health of measurement points to avoid possible safety issues:

- **Hot Backup™:** Seamless transfer from failed sensor to backup sensor
- **Sensor Drift Alert:** Indicates sensor issue before failure by monitoring delta between two sensors
- **T/C Degradation:** Identify degrading sensors and connections by monitoring sensor loop resistance and signal noise
- **Min and Max Tracking:** Records all temperature extremes of the sensor and transmitter electronics

Application Flexibility

Customize your transmitter to meet your application requirements:

- DIN A Head and Rail Mount form factors
- Aluminum, SS, Hygienic Polished SS and Polypropylene enclosures
- Single or Dual Sensor Input Capability
- Segmented LCD Display with optional Local Operator Interface (LOI)
- 5-year stability and 0.1 °C (0.18 °F) reference accuracy
- SIL 2/3 Safety Certification
- Callendar-Van Dusen transmitter-sensor matching improves accuracy by up to 75%

For more information, visit [Emerson.com/TemperatureTransmitters](https://www.emerson.com/TemperatureTransmitters) or contact your local Emerson Sales Representative.

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Orderable in a full temperature assembly for out-of-the-box installation.



SIL 2/3 Safety Certification available to meet your SIS application needs.



The Rail Mount form factor enables a compact, high-density installation.



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