Set a New Performance Standard.
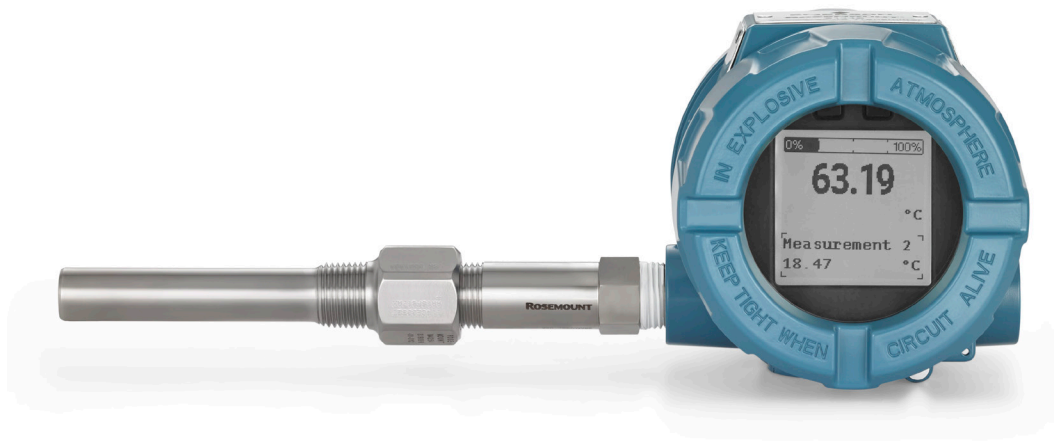
0%   **100%**

63.19

°C

⌐Bluetooth:
Enabled⌐ ᛒ

Rosemount™ 3144S Temperature Transmitter

Engineered to give you the highest performance with flexibility to meet your measurement needs across the widest range of conditions.

EMERSON™

Elevate your performance expectations

Revolutionize your temperature measurements and transform your operations with the Rosemount 3144S Temperature Transmitter. Built with innovative features to meet your toughest measurement challenges and unmatched performance capabilities, the Rosemount 3144S Temperature Transmitter is your answer for best-in-class temperature measurement.

ROSEMOUNT™

Improved Usability

- Get fast and error-free plug-and-play sensor configuration with **ReadyConnect™ Technology**

- Gain local access to more information with **easy to read, backlit, graphical display**

- Perform local configuration and maintenance tasks with built-in **Quick Service Buttons**

- Accomplish tasks quickly with **intuitive user interface**

Advanced Safety

- Take the guess work out of your safety maintenance operations with **Guided Partial and Comprehensive Proof Testing**

- Record all proof testing activities and results to ensure compliance and safety with **proof test logging**

- Avoid pipe penetrations and potential leaks in high temperature applications with **Rosemount X-well™ Technology**, Emerson's non-intrusive process temperature measurement solution

Enhanced Performance

- Obtain high quality measurements consistently with **industry-leading 0.05 °C accuracy**

- Extend calibration intervals while ensuring measurement reliability throughout the transmitter's life with **industry-leading 20-year stability**

- Gain increased confidence and peace of mind in your transmitter's durability and robustness with **industry-leading 20-year warranty**

Diagnostic Capabilities

- Maintain your measurement without process disruption or downtime with **RTD Measurement Protection and Hot Backup™ Capability**

- Detect issues from sensor to control room before failure and maximize uptime with **Sensor Health** and **Loop Integrity Diagnostics**

- Improve visibility to your operations with the **Process Alert Capability** that provides variable dynamic tracking within alarm limits

- Capture basic and advanced diagnostic events and alerts with time stamps with **Diagnostic Logs**

Reimagine your operations with industry-leading features

Explore the Rosemount 3144S Temperature Transmitter

Powerful, innovative features, such as a graphical, backlit display, push-button configuration with ReadyConnect Technology, Bluetooth® Connectivity, and a full suite of diagnostics that provide coverage from the sensor to the control room help simplify your day-to-day responsibilities by giving you more flexibility, performance, insights, and peace of mind.

Non-Intrusive Process Temperature Measurement for High Temperature Applications

Measure temperature without the need for thermowells or process penetrations in high temperature applications using Rosemount X-well Technology with the Rosemount 3144S Temperature Transmitter.

Measure up to 650°C (1202°F): Measure process temperature up to 650°C (1202°F) using Rosemount X-well Technology with the Rosemount 3144S Temperature Transmitter.
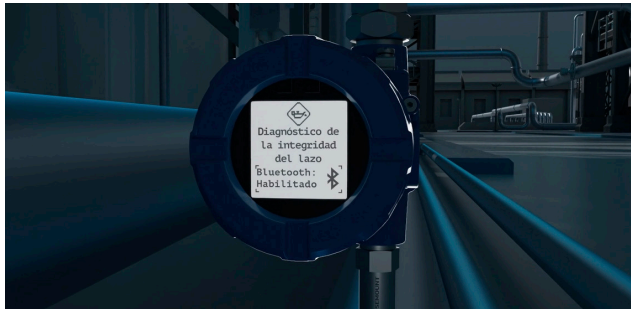
Remote Mount Capable: Mount your transmitters where you want for easy access and optimal display visibility.

Safety Assurance: Rosemount X-well Technology with the Rosemount 3144S Temperature Transmitter is available with SIL2 certification (to IEC 61508) and SIL3 capable to help ensure your application's safety needs are met.

Does Rosemount X-well meet your application's needs? Input your process conditions into our Temperature Product Advisor tool and receive performance comparisons and time response calculations to help determine if Rosemount X-well Technology is a good fit for your application.

Save time and increase productivity

Intuitive, Easy to Use Design

- Display is large, graphical and backlit for increased readability of real-time process data in all plant conditions

- Available in seven different languages, including German, Chinese, Spanish, and more

- Large terminal block is more accessible, easier to wire, and allows for dual 4-wire RTD input capability

- Intuitive user interface includes a task-based menu structure and quick service buttons for quick access and a consistent experience across all communication tools

Configure your measurement point in seconds

ReadyConnect Technology

- Plug-and-play sensor configuration with the push of a button

- Sensor information is stored on a sensor ID tag located in the Rosemount 214C Temperature Sensor, including sensor type, number of wires, and Callendar-Van Dusen coefficients (if applicable)

- The transmitter is automatically configured for the type of sensor, saving you time, eliminating manual input errors, and ensuring the highest accuracy

Streamline configuration, maintenance, and troubleshooting

Bluetooth Connectivity

- Quickly locate field devices and perform tasks related to configuration, device status, and diagnostics using your phone, tablet, or laptop

- Access device information from a safe location with the need for less equipment and less time in hazardous areas

- Devices are protected from unnecessary exposure to the environment, increasing the reliability of both the device and the process

Identify issues before they impact operations or compromise safety

Full Diagnostic Coverage

- RTD Measurement Protection seamlessly switches from a 4-wire to a 3-wire RTD sensor input configuration if one of the four wires becomes broken, corroded, or loose anywhere from the sensor element to the transmitter terminal connections

- The Rosemount 3144S performs a continuous loop check using the Loop Integrity diagnostic, so you know when hidden electrical issues may be affecting the process reading, allowing you to take corrective action before operations or safety are compromised

- Hot Backup, Sensor Drift Alert, and Thermocouple Degradation diagnostics can help you avoid measurement failure or operating under degraded conditions that can lead to inaccuracies, unsafe conditions, and process downtime by alerting you with issues before sensor failure

Reinvent how you measure temperature with the Rosemount 3144S Temperature Transmitter.

EMERSON.