

Rosemount™ X-well™ Technology



Rosemount X-well Technology is the go-to solution for non-intrusive process temperature monitoring. With its unparalleled accuracy and reliability, you can:

- Improve safety
- Decrease design complexity
- Reduce costs
- Increase flexibility

Features and benefits

Rosemount X-well™ Technology provides a Complete Point Solution™ for accurately measuring process temperature in monitoring applications without the requirement of a thermowell or process penetration.



- Simplify temperature measurement point specification, installation, and maintenance and eliminate possible leak points.
- Calculate a repeatable and accurate process temperature measurement with an in-transmitter heat flux algorithm.
- Measures pipe surface and secondary temperatures while using the thermal conductivity properties of the installation and process piping to provide an accurate process measurement.

Access information when you need it with asset tags

Newly shipped devices include a unique QR code asset tag that enables you to access serialized information directly from the device. With this capability, you can:

- Access device drawings, diagrams, technical documentation, and troubleshooting information in your MyEmerson account.
- Improve mean time to repair and maintain efficiency.
- Ensure confidence that you have located the correct device.
- Eliminate the time-consuming process of locating and transcribing nameplates to view asset information.

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Experience global consistency and local support from numerous worldwide Rosemount temperature manufacturing sites



- Experienced instrumentation consultants help select the right product for any temperature application and advise on best installation practices.
- An extensive global network of Emerson service and support personnel can be on-site when and where they are needed.
- World-class manufacturing provides globally consistent product from every factory and the capacity to fulfill the needs of any project, large or small.
- Make wireless installation and configuration easy with the Emerson Wireless Gateway.

Product Advisor

Emerson's Temperature Product Advisor is an online sizing and selection tool designed with a focus on temperature measurement education, configuration, and specification.

Temperature Product Advisor is comprised of transmitter and Rosemount X-well™ Technology modules. Each module provides guidance on the suitability of the product based on application and performance requirements.

To learn more about X-well's performance in your application, visit [Product Advisor](#).

Ordering information

Rosemount X-well™ Technology is available on three industry-leading temperature transmitter platforms (Rosemount 648, 3144S, and 3144P).

For *WirelessHART*® capability, specify the 648 Wireless Temperature Transmitter. For remote mount capability and temperature measurement up to 1202 °F (650 °C), specify the 3144S Temperature Transmitter.

Rosemount 3144S ordering information

Online product configurator

Many products are configurable online using our product configurator.

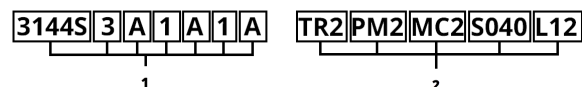
Select the **Configure** button or visit [Emerson.com/global](https://emerson.com/global) to start. With this tool's built-in logic and continuous validation, you can configure your products more quickly and accurately.

Model codes

Model codes contain the details related to each product.

Exact model codes will vary; an example of a typical model code is shown in the following figure.

Figure 1: Model Code Example



1. Required model components
2. Additional options (variety of features and functions that may be added to products)

Specifications and options

The purchaser of the equipment must specify and select:

- Product materials
- Options
- Components

Optimizing lead time

The starred offerings (★) represent the most common options and should be selected for the fastest delivery. The non-starred offerings are subject to additional delivery lead time.

Required model components

Model

Code	Description	
3144S	Temperature transmitter	★

Measurement functionality

Code	Description	
3	Rosemount X-well™ Technology assembly for non-intrusive measurement (with sensor and mounting)	★
4	Single/dual input temperature with X-well Technology capability (transmitter only)	★

Diagnostic functionality

Code	Description	Features	
A	Device, RTD Measurement Protection, and Loop Integrity diagnostic	■ Basic transmitter diagnostics (open/short sensor detect) ■ Process alerts with minimum/maximum tracking ■ RTD measurement protection ■ Loop integrity	★

Code	Description	Features	
B	Enhanced Safety Integrated Systems (SIS) Proof Testing and Logging (includes RTD Measurement Protection and Loop Integrity diagnostic)	■ SIS proof testing and logging ■ Basic transmitter diagnostics (open/short sensor detect) ■ Process alerts with minimum/maximum tracking ■ RTD measurement protection ■ Loop integrity	★
C	Sensor Health (includes Enhanced SIS , RTD Measurement Protection , and Loop Integrity)	■ Thermocouple degradation diagnostic ■ SIS proof testing and logging ■ Basic transmitter diagnostics (open/short sensor detect) ■ Process alerts with minimum/maximum tracking ■ RTD measurement protection ■ Loop integrity	★

Performance class

Code	Description	
1	Ultra: 0.09 °F (0.05 °C) accuracy, 20-year stability, 20-year limited warranty, ReadyConnect™ technology	★
4	Classic: 0.14 °F (0.08 °C) accuracy, 10-year stability	★

Transmitter housing material

Connection head material matches transmitter housing material when TR2 remote assemblies are specified.

Code	Description	
A	Aluminum field mount, dual-compartment housing	★
S	Stainless steel (SST) field mount, dual-compartment housing	★

Conduit/cable threads

Connection head conduit/cable threads match transmitter housing conduit/cable threads when TR2 remote assemblies are specified.

Code	Description	
1	½-14 NPT	★
2	M20 x 1.5	★

Transmitter output

Code	Description	
A	4-20 mA with digital signal based on HART® protocol	★

Rosemount X-well™ process temperature range

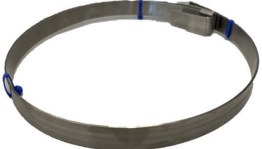
Code	Sensor type	Process temperature range	Transmitter mounting style	Performance ⁽¹⁾	
TR1	Standard range	-58 to +572 °F (-50 to +300 °C)	Direct	Industry leading	★
TR2	Extended range	-76 to +1202 °F (-60 to +650 °C)	Remote ⁽²⁾	Industry standard	★

(1) X-well has better expected total probable error when using standard range sensors.

Refer to [Performance](#).

(2) TR2 remote assemblies include connection head, cable glands, and remote cable.

Rosemount X-well™ pipe mount design

Code	Description	Pipe size range (inch)	Pipe size range (DIN)	Image	
PM1	Small Pipe Mount	½ to 1½	DN15 to DN40		★
PM2	Universal Pipe Mount	2 to 60	DN50 to DN1500		★
PM8	Universal Pipe Mount, banding only	2 to 60	DN50 to DN1500		★

Code	Description	Pipe size range (inch)	Pipe size range (DIN)	Image	
PM9	Universal Pipe Mount, no banding	2 to 60	DN50 to DN1500		★
PM0	No clamp/banding	N/A	N/A	N/A	★

Rosemount X-well™ pipe mount material

Code	X-well pipe mount material	Temperature range (°F)	Temperature range (°C)	
MC1	316 stainless steel (SST)	-76 to +842	-60 to +450	★
MC2	Alloy 625	-76 to +1202	-60 to +650	★

Rosemount X-well™ pipe size

Code	Suitable pipe sizes (diameter)			
	Inches	DIN	Millimeters	
S005	½ in.	DN15	22 mm	★
S007	¾ in.	DN20	27 mm	★
S010	1 in.	DN25	34 mm	★
S012	1¼ in.	DN32	43 mm	★
S015	1½ in.	DN40	49 mm	★
S020	2 in.	DN50	61 mm	★
S025	2½ in.	DN65	77 mm	★
S030	3 in.	DN80	89 mm	★
S040	4 in.	DN100	115 mm	★
S050	5 in.	DN125	140 mm	★
S060	6 in.	DN150	169 mm	★
S080	8 in.	DN200	220 mm	★
S100	10 in.	DN250	273 mm	★
S120	12 in.	DN300	324 mm	★
S140	14 in.	DN350	356 mm	★
S160	16 in.	DN400	407 mm	★
S180	18 in.	DN450	458 mm	★
S200	20 in.	DN500	508 mm	★
S240	24 in.	DN600	610 mm	★

Code	Suitable pipe sizes (diameter)			
	Inches	DIN	Millimeters	
S260	26 in.	DN650	660 mm	★
S300	30 in.	DN750	762 mm	★
S320	32 in.	DN790	813 mm	★
S360	36 in.	DN900	915 mm	★
S400	40 in.	DN1000	1016 mm	★
S420	42 in.	DN1050	1070 mm	★
S480	48 in.	DN1200	1219 mm	★
S520	52 in.	DN1300	1321 mm	★
S560	56 in.	DN1400	1423 mm	★
S600	60 in.	DN1500	1524 mm	★

Additional options

Rosemount X-well™ corrosion protection inlay

Corrosion protection inlay placed between mount and pipe prevents galvanic corrosion between dissimilar metals.

Code	Description	
P1	Corrosion protection inlay - material NBR	

Rosemount X-well™ remote mount cable length

Required when you order TR2 extended range sensor.

Code	Description	
L12	12 ft. (3.66 m) shielded cable	★
L24	24 ft. (7.32 m) shielded cable	
L75	75 ft. (22.86 m) shielded cable	

Rosemount X-well™ remote mount cable armor type

Code	Description	
AC	PVC-coated armored cable lead wire extension	

Retrofit kit

Code	Description	Details	Image	
R9	Universal Pipe Mount to Small Pipe Mount retrofit kit	Includes U-bolt, nuts, thin washers, and tall spacers. Allows retrofitting of Universal Pipe Mount down to 0.5 to 1.5 in. (DN-15-40).		★

Local wireless device access

Code	Description	
BLE	Bluetooth® configuration and maintenance	★

Display type

Code	Description	
M6	Graphical LCD display with Quick Service buttons	★
M7	Graphical LCD display (Quick Service buttons disabled)	★

Transmitter mounting bracket

Code	Description	Image	
B4	Stainless steel (SST) U-bolt mounting bracket, 2-inch pipe mount		★
BE	316 SST U-bolt mounting bracket, 2-inch pipe mount		★
B5	SST L-bolt mounting bracket, 2-inch pipe and panel mount		★
BH	316 SST L-bolt mounting bracket, 2-inch pipe and panel mount		★

Tagging and fastener material

Code	Description	
Y2	316 stainless steel (SST) name plate, top tag, wire-on tag, and fasteners	★

RFID tagging

Code	Description	Example image	
Y3	RFID tag		★

Transient protection

Code	Description	
T1	Transient terminal block	★

Extended product warranty

Code	Description	
WR3	3-year limited warranty	★
WR5	5-year limited warranty	★

Software configuration

Required for Rosemount X-well factory configuration of specific pipe characteristics.

Code	Description	
C1	Custom software configuration (requires <i>Configuration Data Sheet</i> - available on Emerson.com)	★

Sensor trim

Only available with Measurement functionality option 4 (transmitter only).

Code	Description	
C2	Transmitter-sensor matching – trim to PT100 RTD calibration schedule (Callendar-Van Dusen constants)	★

5-point calibration

Code	Description	
P5	5-point calibration (requires Q4 option code to generate calibration certificate)	★

Alarm limit

Code	Description	
C4	NAMUR alarm and saturation levels, High alarm	★
C5	NAMUR alarm and saturation levels, Low alarm	★
C6	Custom alarm and saturation signal levels, High alarm (requires C1 and Configuration Data Sheet - available on Emerson.com)	★
C7	Custom alarm and saturation signal levels, Low alarm (requires C1 and Configuration Data Sheet - available on Emerson.com)	★
C8	Low alarm (standard Rosemount alarm and saturation levels)	★

Ground screw

Code	Description	
G1	External ground screw assembly	★

Conduit plug

Code	Description	
DO	316 stainless steel (SST) conduit plug	★

Conduit electrical connector

Code	Description	
GE	M12, 4-pin, male connector (eurofast®)	★
GM	A size mini, 4-pin, male connector (minifast®)	★

Cold temperature

Code	Description	
BR6	-76 °F (-60 °C) cold temperature operation	★

Calibration certification

Code	Description	
Q4	Calibration certificate	
QP	Calibration certificate and tamper evident seal	★

Quality certification for safety

Code	Description	
QT	Safety certified to IEC 61508 with certificate of failure modes, effects, and diagnostic analysis (FMEDA) data	

Line filter

Code	Description	
F5	50 Hz line voltage filter	★
F6	60 Hz line voltage filter	★

Shipboard approval

Code	Description	
SBS	American Bureau of Shipping (ABS) type approval	★
SBV	Bureau Veritas (BV) type approval	★
SDN	Det Norske Veritas (DNV) type approval	★
SLL	Lloyd's Register (LR) type approval	★

Product certifications

Code	Description	
K1	ATEX Flameproof, Intrinsic Safety	★
E1	ATEX Flameproof	★
I1	ATEX Intrinsic Safety	★
K5	USA Explosion-proof, Intrinsically Safe, Division 2	★
E5	USA Explosion-proof	★
I5	USA Intrinsically Safe, Division 2	★

Code	Description	
K6	Canada Explosion-proof, Intrinsically Safe, Division 2	★
E6	Canada Explosion-proof	★
I6	Canada Intrinsically Safe, Division 2	★
K7	IECEX Flameproof, Intrinsic Safety	★
E7	IECEX Flameproof	★
I7	IECEX Intrinsic Safety	★

Rosemount 3144P ordering information

For 3144P Temperature Transmitter ordering information, see [Rosemount 3144P Temperature Transmitter Product Data Sheet](#).

Rosemount 648 ordering information

For 648 Wireless Temperature Transmitter ordering information, see [Rosemount 648 Wireless Temperature Transmitter Product Data Sheet](#).

Rosemount 214XW ordering information

Online product configurator

Many products are configurable online using our product configurator.

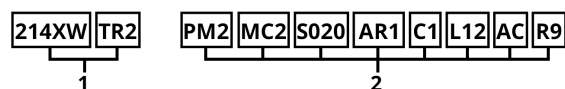
Select the **Configure** button or visit [Emerson.com/global](https://emerson.com/global) to start. With this tool's built-in logic and continuous validation, you can configure your products more quickly and accurately.

Model codes

Model codes contain the details related to each product.

Exact model codes will vary. An example of a typical model code is shown in [Figure 2](#).

Figure 2: Model Code Example



1. Required model components
2. Additional options

Specifications and options

The purchaser of the equipment must specify and select:

- Product materials
- Options
- Components

Optimizing lead time

The starred offerings (★) represent the most common options and should be selected for the fastest delivery. The non-starred offerings are subject to additional delivery lead time.

Required model components

Model

Code	Description	
214XW	Rosemount X-well™ Technology spare parts	★

Rosemount X-well™ sensor type

Code	Description	Process temperature range	Transmitter mounting style	Performance ⁽¹⁾	
TR1	Standard range	-58 to +572 °F (-50 to +300 °C)	Direct	Industry leading	★
TR2	Extended range	-76 to +1202 °F (-60 to +650 °C)	Remote	Industry standard	★
TR0	No sensor	N/A	N/A	N/A	★

(1) X-well has better expected total probable error when using standard range sensors. Refer to [Performance](#) for more information.

Rosemount X-well™ pipe mount design

Code	Description	Pipe size range (inch)	Pipe size range (DIN)	Image	
PM1	Small Pipe Mount	½ to 1½	DN15 to DN40		★
PM2	Universal Pipe Mount	2 to 60	DN50 to DN1500		★

Code	Description	Pipe size range (inch)	Pipe size range (DIN)	Image	
PM8	Universal Pipe Mount, banding only	2 to 60	DN50 to DN1500		★
PM9	Universal Pipe Mount, no banding	2 to 60	DN50 to DN1500		★
PM0	No clamp/banding	N/A	N/A	N/A	★

Optional model components

Rosemount X-well™ pipe mount material

Code	X-well pipe mount material	Temperature range (°F)	Temperature range (°C)	
MC1	316 stainless steel (SST)	-76 to +842	-60 to +450	★
MC2	Alloy 625	-76 to +1202	-60 to +650	★

Rosemount X-well™ pipe size

Code	Suitable pipe sizes (diameter)			
	Inches	DIN	Millimeters	
S005	½ in.	DN15	22 mm	★
S007	¾ in.	DN20	27 mm	★
S010	1 in.	DN25	34 mm	★
S012	1¼ in.	DN32	43 mm	★
S015	1½ in.	DN40	49 mm	★
S020	2 in.	DN50	61 mm	★
S025	2½ in.	DN65	77 mm	★
S030	3 in.	DN80	89 mm	★
S040	4 in.	DN100	115 mm	★
S050	5 in.	DN125	140 mm	★
S060	6 in.	DN150	169 mm	★
S080	8 in.	DN200	220 mm	★
S100	10 in.	DN250	273 mm	★

Code	Suitable pipe sizes (diameter)			
	Inches	DIN	Millimeters	
S120	12 in.	DN300	324 mm	★
S140	14 in.	DN350	356 mm	★
S160	16 in.	DN400	407 mm	★
S180	18 in.	DN450	458 mm	★
S200	20 in.	DN500	508 mm	★
S240	24 in.	DN600	610 mm	★
S260	26 in.	DN650	660 mm	★
S300	30 in.	DN750	762 mm	★
S320	32 in.	DN790	813 mm	★
S360	36 in.	DN900	915 mm	★
S400	40 in.	DN1000	1016 mm	★
S420	42 in.	DN1050	1070 mm	★
S480	48 in.	DN1200	1219 mm	★
S520	52 in.	DN1300	1321 mm	★
S560	56 in.	DN1400	1423 mm	★
S600	60 in.	DN1500	1524 mm	★

Rosemount X-well™ corrosion protection inlay

Corrosion protection inlay placed between mount and pipe prevents galvanic corrosion between dissimilar metals.

Code	Description	
P1	Corrosion protection inlay - material NBR	

Connection head

Code	Description	
AR1	Aluminum connection head	★
SR1	Stainless steel (SST) connection head	★

Conduit entry

Code	Description	
C1	½-inch NPT	★
C2	M20 x 1.5	★

Rosemount X-well™ remote mount cable length

Required when you order TR2 extended range sensor.

Code	Description	
L12	12 ft. (3.66 m) shielded cable	★
L24	24 ft. (7.32 m) shielded cable	

Code	Description	
L75	75 ft. (22.86 m) shielded cable	

Rosemount X-well™ remote mount cable armor type

Code	Description	
AC	PVC-coated armored cable lead wire extension	

Tagging and fastener material

Code	Description	
Y2	316 stainless steel (SST) name plate, top tag, wire-on tag, and fasteners	★

RFID tagging

Code	Description	Example image	
Y3	RFID tag		★

Retrofit kit

Code	Description	Details	Image	
R9	Universal Pipe Mount to Small Pipe Mount retrofit kit	Includes U-bolt, nuts, thin washers, and tall spacers. Allows retrofitting of Universal Pipe Mount down to 0.5 to 1.5 in. (DN-15-40).		★

Product certifications

Code	Description	
K1	ATEX Flameproof, Intrinsic Safety	★
E1	ATEX Flameproof	★
I1	ATEX Intrinsic Safety	★
K5	USA Explosion-proof, Intrinsically Safe, Division 2	★
E5	USA Explosion-proof	★
I5	USA Intrinsically Safe, Division 2	★
K6	Canada Explosion-proof, Intrinsically Safe, Division 2	★
E6	Canada Explosion-proof	★

Code	Description	
I6	Canada Intrinsically Safe, Division 2	★
K7	IECEX Flameproof, Intrinsic Safety	★
E7	IECEX Flameproof	★
I7	IECEX Intrinsic Safety	★

Product specifications

For Rosemount 3144S Temperature Transmitter specifications, see *Rosemount 3144S Product Data Sheet* - available on [Emerson.com](https://www.emerson.com).

For Rosemount 3144P Temperature Transmitter specifications see [Rosemount 3144P Temperature Transmitter Product Data Sheet](#).

For Rosemount 648 Temperature Transmitter specifications, see [Rosemount 648 Wireless Temperature Transmitter Product Data Sheet](#).

Material selection

Emerson provides a variety of Rosemount products with various product options and configurations.

This includes materials of construction that can be expected to perform well in a wide range of applications. The Rosemount product information presented is intended as a guide for the purchaser to make an appropriate selection for the application. It is the purchaser's sole responsibility to make a careful analysis of all process parameters when specifying products, materials, options, and components for the application. Examples of process parameters include:

- all chemical components
- temperature
- pressure
- flow rate
- abrasives
- contaminants

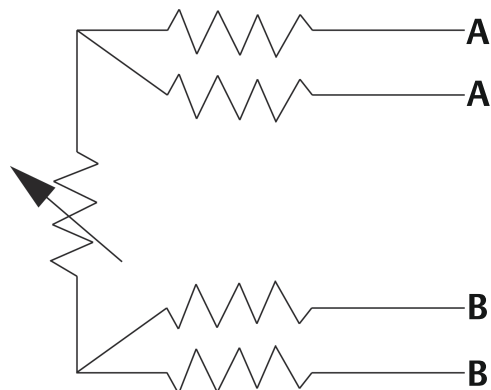
Emerson is not able to evaluate or guarantee the compatibility of the process fluid or other process parameters with the products, options, configurations, or materials of construction selected.

Standard range Rosemount X-well™ sensor (TR1) specifications

Sensor type	Pt100 Ω RTD, single element, 4-wire
Nominal resistance	In accordance with IEC 60751, the nominal resistance is defined: 100 Ω RTD at +32 °F (0 °C) $\alpha = 0.00385 \Omega \times ^\circ\text{C}/\Omega$, averaged between +32 and +212 °F (0 and +100 °C)
Process temperature range	-58 to +572 °F (-50 to +300 °C)
Ambient temperature range	-40 to +185 °F (-40 to +85 °C)
Self-heating	0.15 K/mW when measured as defined in IEC 60751
Insulation resistance	1,000 M Ω minimum insulation resistance when measured at 500 Vdc at room temperature

Sheath material	316 stainless steel (SST) with mineral insulated cable construction and silver tip.
Lead wires	PTFE-insulated, silver-coated copper wire. See Figure 3 .
Identification data	The model and serial numbers are engraved directly on the spring-loaded adapter.

Figure 3: Sensor Lead Wire Termination - Standard Range Sensor (TR1)



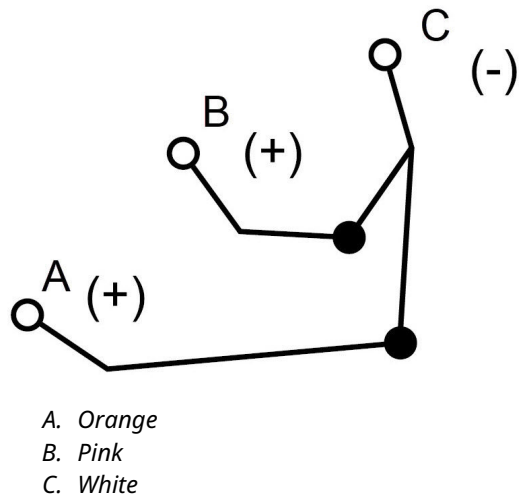
Single element 4-wire

- A. Red
- B. White

Extended range Rosemount X-well™ sensor (TR2) specifications

Sensor type	Thermocouple Type N, dual element, 3-wire
Process temperature range	-76 to +1202 °F (-60 to +650 °C)
Ambient temperature range	-76 to +185 °F (-60 to +85 °C)
Sheath material	Alloy 600 and alloy 600 tip
Lead wires	Nicrosil(+) and Nisil(-) (see Figure 4)
Identification data	The model and serial numbers are engraved directly on the spring loaded adapter.

Figure 4: Sensor Lead Wire Termination - Extended Range Sensor (TR2)



Performance

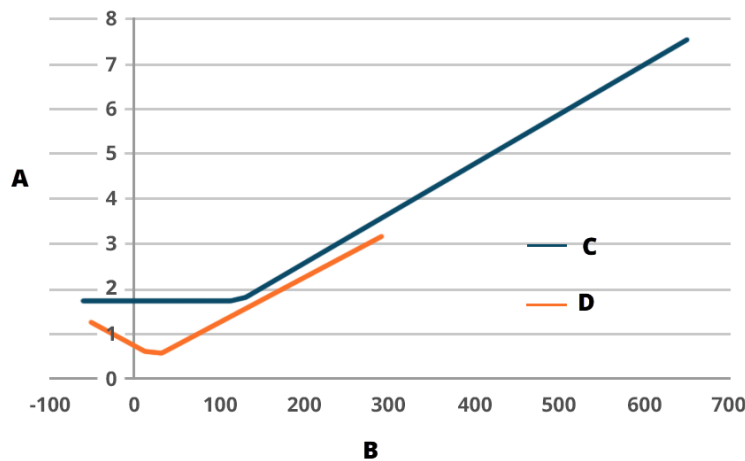
Total probable error (TPE) includes sensing element accuracies, lab uncertainty, Rosemount X-well™ repeatability, transmitter digital accuracy, and transmitter ambient temperature effects.

Table 1: Total Probable Error

Transmitter	Extended range sensor ⁽¹⁾		Standard range sensor	
	°C	°F	°C	°F
Rosemount 648 Wireless Temperature Transmitter	N/A	N/A	0.5 °C + 0.01*(process temperature - ambient temperature)	0.9 °F + 0.01*(process temperature - ambient temperature)
Rosemount 3144P Temperature Transmitter	N/A	N/A		
Rosemount 3144S Temperature Transmitter	±1.75 °C or ±(0.65 °C + 0.011*(process temperature - ambient temperature)) Whichever is greater	±3.15 °F or ±(1.17 °F + 0.011*(process temperature - ambient temperature)) Whichever is greater		

(1) Additional ±0.05 °C (±0.9 °F) to TPE for ambient temperatures below -40 °C (-40 °F)

Figure 5: X-well Total Probable Error at 23 °C (73 °F) Ambient Temperature



- A. TPE ($\pm^{\circ}\text{C}$)
- B. Process temperature ($^{\circ}\text{C}$)
- C. Extended range sensor
- D. Standard range sensor

X-well system time response is a function of pipe material, pipe thickness, process temperature, ambient temperature, process fluid properties, and flow conditions. Response time is fastest in applications with highly conductive pipe materials, think pipe walls, liquid processes, and high velocity flow conditions.

To generate a performance estimate for your specific application, visit [Product Advisor](#).

Pipe mount specifications

Vibration effect

- | | |
|-----------------------------|---|
| Universal Pipe Mount | No effect on performance per the requirements of IEC 60770-1: 2010 field or pipeline with medium vibration level (10 - 60 Hz 0.3 mm displacement peak amplitude/60-1000 Hz 2g). |
| Small Pipe Mount | No effect on performance per the requirements of IEC 61298-3: 1998 field or pipeline with medium vibration level (10-150 Hz 0.15 mm displacement peak amplitude/60-1000 Hz 1g). |

Product certifications

For Rosemount 3144S Temperature Transmitter product certifications, refer to the *Rosemount 3144S Quick Start Guide* (available on Emerson.com).

For Rosemount 3144P Temperature Transmitter product certifications, refer to the [Rosemount 3144P Temperature Transmitter Quick Start Guide](#).

For Rosemount 648 Temperature Transmitter product certifications, refer to the [Rosemount 648 Wireless Temperature Transmitter Quick Start Guide](#).

Dimensional drawings

For Rosemount 3144S Temperature Transmitter dimensional drawings, see 3144S dimensional drawings (available on Emerson.com).

For Rosemount 3144P Temperature Transmitter dimensional drawings, see [3144P Dimensional Drawings](#).

For Rosemount 648 Temperature Transmitter dimensional drawings, see [648 Dimensional Drawings](#).

For more information: [Emerson.com/global](https://emerson.com/global)

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ROSEMOUNT™

