

Temperature

The Rosemount Temperature portfolio provides reliable solutions for a variety of temperature applications across your plant. Our integrated approach to the design and manufacturing of sensors, thermowells and transmitters ensures the most reliable and durable temperature measurement in every installation.

Single Point Temperature Transmitters

Rosemount Single Point temperature transmitters deliver exceptional results by utilizing innovative designs and advanced diagnostics. A comprehensive and versatile portfolio provides solutions for every single point temperature measurement need.

- Advanced diagnostics: Hot Backup, Sensor Drift Alert, and Thermocouple Degradation Diagnostics
- Reliable dual compartment housings for harsh process and environmental conditions
- Unmatched measurement system accuracy with Transmitter-Sensor Matching



High Density Temperature Transmitters

Multiple temperature measurements within close proximity require an innovative solution with proven technology. Rosemount high density products provide a reliable and cost-effective way to solve your temperature-intensive application.



General Use Temperature Sensors

Rosemount General Use Sensors and Thermowells can provide a complete solution for your temperature measurement needs. Our sensors and thermowells deliver superior durability to complement Rosemount transmitters.



Application and Industry Solution (AIS) Temperature Sensors

The most difficult temperature applications require advanced sensor designs. Rosemount AIS sensors offer the best performance for challenging process environments and unique installations.






Table 1. Temperature Transmitter Product Selection Chart

Models	Application		Functionality								Housing				Available Outputs				
	Single Point	High Density	Sensor Inputs	RTD Inputs	Thermocouple Inputs	LCD Display	Hot Backup [®]	Sensor Drift Alert	Safety Certified	Transmitter Sensor Matching	Integral Transient	Dual-Compartment	Head Mount	Rail Mount	Other	HART	FOUNDATION fieldbus	Wireless	PC-Programmable
3144P			2	X	X	X	X	X	X	X	X	X	-	-	-	X	X	-	-
648			1	X	X	X	-	-	-	X		X	-	-	-	X	-	X	-
644			1	X	X	X	-	-	-	X	X	-	X	X	-	X	X	-	-
248			1	X	X	-	-	-	-	-	-	-	X	X	-	X	-	-	-
148			1	X	X	-	-	-	-	-	-	-	X	-	-	-	-	-	X
848T			8	X	X	-	-	-	-	-	X	-	-	X	-	-	X	-	X
848T Wireless			4	X	X	-	-	-	-	-	-	-	-	-	X	-	X	-	-

 = Recommended  = Available  = Not Available  Not Applicable

Table 2. Temperature Sensor Selection Chart

Models	Style		Technology		Specifications			
	U.S.	European DIN / Metric	RTD	Thermocouple	Temperature Range °C (°F)	Use with Transmitter-Sensor Matching	Measurement Points	Comments
68	X	-	X	-	-50 to 400 (-58 to 752)	X	1	Thin-film RTD
78	X	-	X	-	-200 to 600 (-328 to 1112)	X	1 or 2	Wire-wound RTD
68Q	X	-	X	-	-50 to 200 (-58 to 392)	X	1 or 2	Sanitary RTD
183	X	-	-	X	-180 to 1150 (-292 to 2102)	-	1 or 2	U.S. Style Thermocouple
1080/ 1082	NA	NA	X	X	-40 to 800 (-40 to 1472)	X	2 to 60	Multipoint sensor for temperature profiling
65	-	X	X	-	-196 to 600 (-321 to 1112)	X	1 or 2	DIN style RTD
65Q	-	X	X	-	-50 to 250 (-58 to 482)	X	1 or 2	Sanitary RTD
65B	-	X	X	-	-50 to 250 (-58 to 482)	X	1 or 2	Sanitary RTD
185	-	X	-	X	-40 to 1000 (-40 to 1832)	-	1 or 2	DIN style thermocouple
1075	-	X	-	X	0 to 1700 (32 to 3092)	-	1	High Temperature Thermocouple

 = Available  = Not Available  Not Applicable