

Immersion Temperature Sensors — Various Outputs





Description

The ImmersionTemperature Sensors with Well monitor and transmit changes in temperature to the building control system. Specific devices within the range are compatible with most North American building automation systems. The sensors include a well to enable service and repair without draining the system. All sensors incorporate precision temperature sensing elements to accurately and reliably measure temperature.

Features

- · Variety of output signals / probe lengths
- · Suitable for hot or chilled fluids
- · Responsive to temperature change
- · Accurate and reliable indication of temperature
- · Simple installation requires no special tools

Applications

Immersion temperature sensors are used throughout HVAC and processing systems to monitor fluid temperatures in piping and vessels.

SIEMENS

Immersion Temperature Sensor Specifications

Output Signals		Accuracy
Active	4-20mA	NTC Thermistors, mid-range ±1.0°F (±0.5°C)
Passive	Pt 1k Ω (375 alpha)	Pt RTD and Ni RTD, mid-range ±0.75°F (±0.4°C)
	Pt 1k Ω (385 alpha) Ni 1k Ω @32F	External Installation Threads1/2-inch – 14 NPT
	Ni 1k Ω @70F	Conduit Connection Threads 1/2-inch – 14 NPSMI
	NTC 100k Ω NTC 10k Ω Type II	Housing Material Cast zinc
	NTC 10k Ω Type III	Immersion Well Material

Immersion Temperature Sensors Product Ordering

Application	Description	Output Signal	Part Number	Range	Data Sheet
	2.5" Immersion Temp Sensor With Well	Platinum 1k Ω 375 alpha	544-577-25	Controller Dependent	149-261P25
	4" Immersion Temp Sensor With Well		544-577-40		149-261P25
Liquid Immersion	6" Immersion Temp Sensor With Well		544-577-60		149-261P25
	2.5" Immersion Temp Sensor With Well		536-767-25	30 to 250F	149-263P25
	2.5" Immersion Temp Sensor With Well		536-774-25	20 to 70F	149-263P25
	2.5" Immersion Temp Sensor With Well		544-562-25	32 to 212F	149-263P25
	4" Immersion Temp Sensor With Well		536-767-40	30 to 250F	149-263P25
	4" Immersion Temp Sensor With Well	4-20 mA	536-774-40	20 to 70F	149-263P25
	4" Immersion Temp Sensor With Well		544-562-40	32 to 212F	149-263P25
	6" Immersion Temp Sensor With Well		536-767-60	30 to 250F	149-263P25
	6" Immersion Temp Sensor With Well		536-774-60	20 to 70F	149-263P28
	6" Immersion Temp Sensor With Well		544-562-60	32 to 212F	149-263P2
	2.5" Immersion Temp Sensor With Well		QAE2020.005	Controller Dependent	149-919
	4" Immersion Temp Sensor With Well	Nickel 1k Ω @ 32F	QAE2020.010		149-919
	6" Immersion Temp Sensor With Well		QAE2020.015		149-919
	2.5" Immersion Temp Sensor With Well		QAE2021.005		149-919
	4" Immersion Temp Sensor With Well	Nickel 1k Ω @ 70F	QAE2021.010		149-919
	6" Immersion Temp Sensor With Well		QAE2021.015		149-919
	2.5" Immersion Temp Sensor With Well		536-777-25		149-262P2
	4" Immersion Temp Sensor With Well	NTC 100k Ω Type 2	536-777-40		149-262P2
	6" Immersion Temp Sensor With Well		536-777-60		149-262P2
	2.5" Immersion Temp Sensor With Well		QAE2030.005		149-919
	4" Immersion Temp Sensor With Well	NTC 10k Ω Type 2	QAE2030.010		149-919
	6" Immersion Temp Sensor With Well		QAE2030.015		149-919
	2.5" Immersion Temp Sensor With Well		QAE2032.005		149-919
	4" Immersion Temp Sensor With Well	NTC 10k Ω Type 3	QAE2032.010		149-919
	6" Immersion Temp Sensor With Well		QAE2032.015		149-919
	2.5" Immersion Temp Sensor With Well		QAE2012.005		149-919
	4" Immersion Temp Sensor With Well	Platinum 1k Ω 385 alpha	QAE2012.010		149-919
	6" Immersion Temp Sensor With Well		QAE2012.015		149-919