



i-Vu® Building Automation System ZS Immersion Sensors



The Carrier communicating ZS immersion sensors line is designed to monitor water temperature in pipe applications. The sensor is potted inside a 1/4" stainless steel probe with a thermally conductive compound. All immersion units are mounted in a thermowell and have etched Teflon® lead-wires and double encapsulated sensors to create a watertight package that can withstand a wide range of humidity and condensation.



The ZS immersion sensors connect directly to the dedicated sensor network (Rnet) of a Carrier i-Vu controller. This communicating sensor network supports up to 15 ZS sensors through a single port, eliminating the need to consume multiple inputs on the controller.



Immersion unit probes are required to be inserted into a thermowell.

Sensor Part # (Back Probe)	Sensor Part # (Bottom Probe)	Description
ZSI-B-2-6-B	ZSI-S-2-6-B	ZS Immersion Sensor 2" in IP65 enclosure
ZSI-B-4-6-B	ZSI-S-4-6-B	ZS Immersion Sensor 4" in IP65 enclosure

2" Thermowell Part #	4" Thermowell Part #	Description
ZSI-T-2-WSS-B	ZSI-T-4-WSS-B	Insertion thermowell - Two-piece welded 304 stainless
ZSI-T-2-MSS-B	ZSI-T-4-MSS-B	Insertion thermowell - One-piece machined 304 stainless
ZSI-T-2-MB-B	ZSI-T-4-MB-B	Insertion thermowell - One-piece machined brass

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ZS Immersion Sensors



Specifications

Sensor	Range: -40° to 212°F (-40° to 100°C) Accuracy: ±1.3°F (0.72°C)
Enclosure Material	Polycarbonate, UL94V-0
Enclosure Rating	NEMA 4, IP66, UV rated
Probe	304 SS 0.25" (0.64 cm) diameter 2 or 4 in. (5.08 or 10.16 cm) length specified at time of order
Power Requirements	12 Vdc @ 6 mA
Power Supply	The 4-conductor Rnet cable from a controller supplies +12 Vdc @ 210 mA. For additional power, use an external power supply. Use the above power requirements to calculate the size of the external power supply. The controller and the external power supply must share a common ground.
Communication	115 kbps
Mounting	Sensor's 1/2 in. NPSM plastic threads are screwed into a thermowell
Listed By	FCC Part 15-Subpart B-Class B, CE

Dimensions

Enclosure

Width: 5" (12.7 cm)

Height: 4.15" (10.54 cm)

Depth: 2.5" (6.35 cm)

