

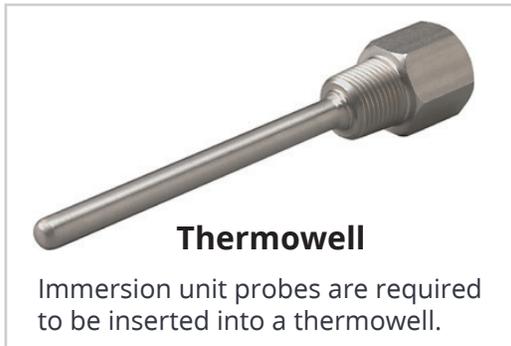
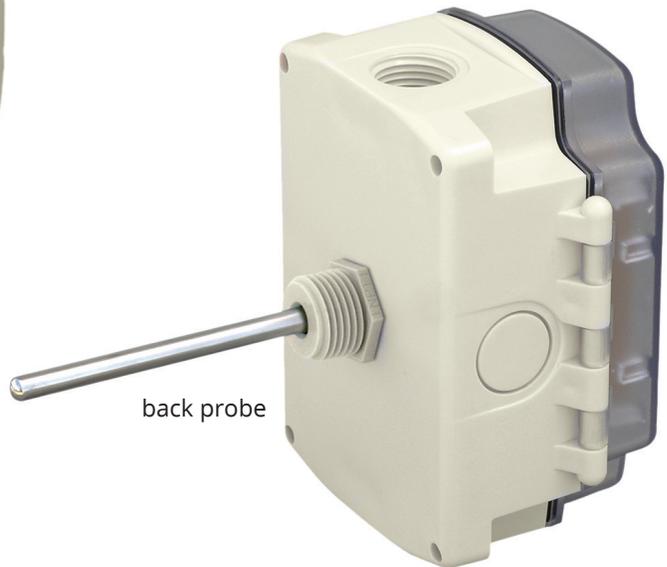
# ZS IMMERSION SENSORS - Communicating

The OEMCtrl® line of ZS sensors communicates on Rnet, the dedicated sensor network. This reduces the number of inputs needed on the controller and provides the added benefit of simplifying I/O wiring by allowing for daisy-chaining of sensors on the Rnet. The immersion sensors are designed to monitor water temperature in retrofit or filled pipe applications. The sensor is potted inside a 1/4" stainless steel probe with a thermally conductive compound. All Immersion units have etched Teflon™ leadwires and double encapsulated sensors to create a watertight package that can withstand a wide range of humidity and condensation.

Designed to work with all OEMCtrl controllers, the ZS communicating sensor line includes zone sensors, duct sensors, averaging sensors, immersion sensors, clamp-on sensors, and outdoor air sensors.



**ZS Immersion Temperature Sensor**



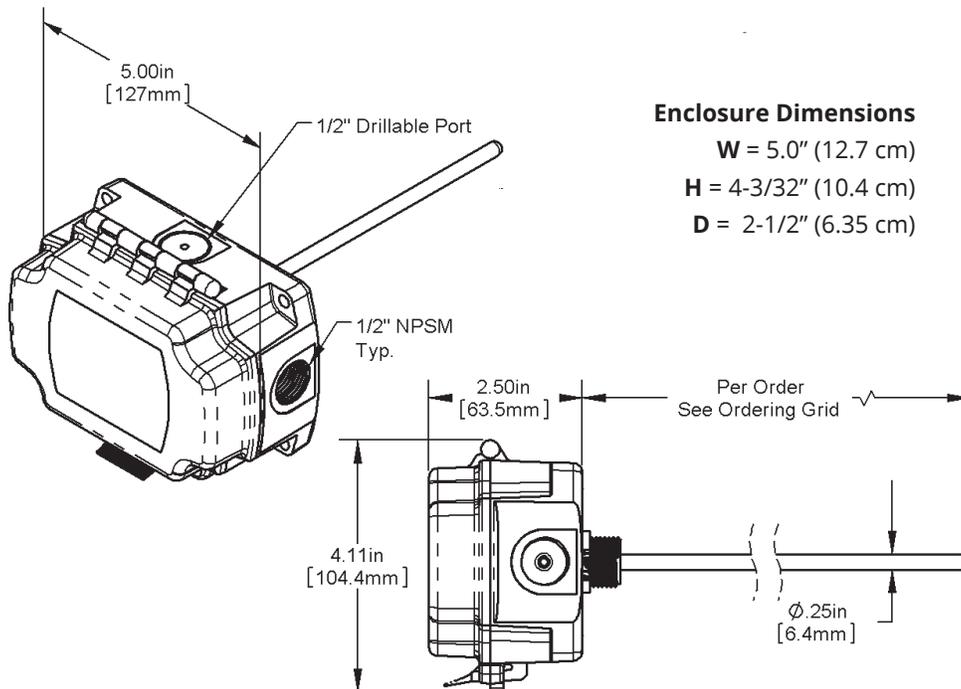
**Thermowell**

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

Part # (Back Probe)	Part # (Bottom Probe)	Description	Probe Length
ZSI-B-2-6-B	ZSI-S-2-6-B	ZS Immersion Sensor 2" in IP65 enclosure	2" (inches)
ZSI-B-4-6-B	ZSI-S-4-6-B	ZS Immersion Sensor 4" in IP65 enclosure	4" (inches)
ZSI-T-2-WSS-B	ZSI-T-4-WSS-B	Insertion thermowell - Two-piece welded 304 stainless	N/A
ZSI-T-2-MSS-B	ZSI-T-4-MSS-B	Insertion thermowell - One-piece machined 304 stainless	N/A
ZSI-T-2-MB-B	ZSI-T-4-MB-B	Insertion thermowell - One-piece machined brass	N/A

# Specifications

<b>Sensing Element</b>	<b>Range</b>	<b>Accuracy</b>
Temperature (sensing element)	20° F to 120° F (-5° C to 50° C)	±0.36° F (0.2° C)
Temperature (system)	20° F to 120° F (-5° C to 50° C)	±0.9° F (0.5° C)
<b>Power Requirements</b>	12 Vdc @ 6 mA	
<b>Power Supply</b>	A controller supplies the Rnet sensor network with 12 Vdc @ 210 mA. Additional power may be required for your application. See ZS Sensors Installation Guide	
<b>Communication</b>	115 kbps Rnet connection between sensor(s) and controller 15 sensors max per Rnet network; 5 sensors max per control program	
<b>Environmental Operating Range</b>	-40° F to 158° F (-40° to 70° C), 0% to 100% relative humidity, non-condensing	
<b>Enclosure</b>	<b>Material</b> Polycarbonate, UL94V-0	<b>Rating</b> NEMA 4, IP66, UV rated
<b>Probe</b>	304 S/S 0.25" (0.64 cm) diameter Length specific to part ordered	
<b>Mounting</b>	Probes are required to be inserted into a thermowell.	
<b>Listed By</b>	FCC Part 15-Subpart B-Class B, CE	



## Enclosure Dimensions

W = 5.0" (12.7 cm)

H = 4-3/32" (10.4 cm)

D = 2-1/2" (6.35 cm)



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