The Automated Logic® ZS line of communicating 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® 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 an Automated Logic 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.

The WebCTRL® building automation system gives you the ability to understand your building operations and analyze the results. The WebCTRL system integrates environmental, energy, security and safety systems into one powerful management tool that allows you to reduce energy consumption, increase occupant comfort, and achieve sustainable building operations. Our web-based platform allows building managers to control and access information about their HVAC, lighting, central plant and critical processes on premises or remotely at any time of day.
## ZS Immersion Sensors

### Specifications

<table>
<thead>
<tr>
<th>Sensing Element</th>
<th>Range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (system)</td>
<td>-40° F to 212° F (-40° C to 100° C)</td>
<td>±1.3° F (0.72° C)</td>
</tr>
</tbody>
</table>

**Power Requirements**
12 Vdc @ 6 mA

**Power Supply**
A controller supplies the Rnet sensor network with 12 Vdc @ 210 mA. Additional power may be required for your application. See ZS Sensor Installation Guide

**Communication**
115 kbps Rnet connection between sensor(s) and controller
15 sensors max per Rnet network; 5 sensors max per control program

**Enclosure**
<table>
<thead>
<tr>
<th>Material</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycarbonate, UL94V-0</td>
<td>NEMA 4, IP66, UV rated</td>
</tr>
</tbody>
</table>

**Probe**
- 304 S/S
- 0.25" (0.64 cm) diameter
- Length specific to part ordered

**Mounting**
Probes are required to be inserted into a thermowell.

**Listed By**
FCC Part 15-Subpart B-Class B, CE

### Enclosure Dimensions
- W = 5.0 in. (12.7 cm)
- H = 4.15 in. (10.54 cm)
- D = 2.5" (6.35 cm)

### Part # (back probe) | Part # (bottom) | Description
--- | --- | ---
ZSI-B-2-6-B | ZSI-S-2-6-B | ZS Immersion Sensor 2" in IP66 enclosure
ZSI-B-4-6-B | ZSI-S-4-6-B | ZS Immersion Sensor 4" in IP66 enclosure
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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