ZS CLAMP-ON STRAP SENSORS
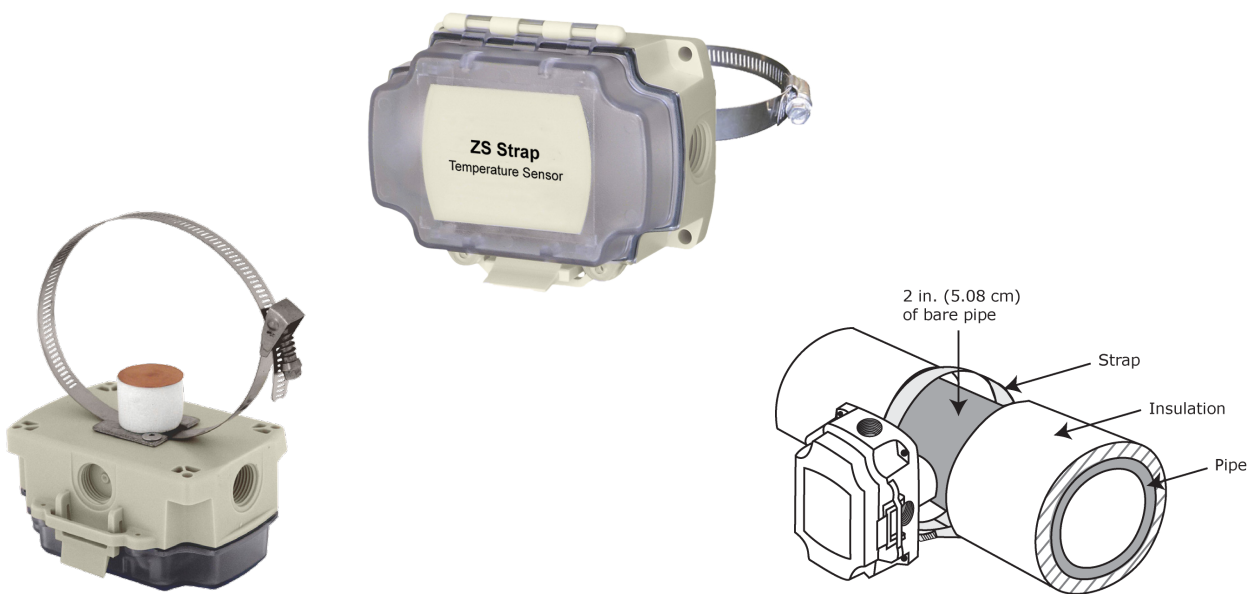
Automated Logic

COMMUNICATING SENSORS FOR PIPE APPLICATIONS

The Automated Logic® ZSS line of communicating clamp-on strap sensors are designed to monitor water temperature in retrofit or filled pipe applications. These senors have a bendable copper sensing plate that forms to the curvature of the pipe, along with an adjustable hose clamp that holds the unit in place around the pipe. They measure the water temperature by sensing the surface temperature of the pipe.

The ZSS clamp-on strap sensors connect directly to the dedicated sensor network (Rnet) of an Automated Logic controller. This communicating sensor network supports up to 15 x ZSS sensors through a single port, eliminating the need to consume multiple inputs on the controller.

2 in. (5.08 cm) of bare pipe
Strap
Insulation
Pipe

WebCTRL®

The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.

ORDERING INFORMATION

Part # (Back Mounting)	Description	Fits
ZSS-B-2-6-A	ZS Clamp-on, Temp Only	2 in. to 4.5 in. pipe diameter (51 mm to 114 mm)

SPECIFICATIONS

Sensing Element	Specifications
Sensor	Range: 20° to 120° F (-5° C to 50° C), Accuracy: ±-0.9° F (0.5° C)
Sensor Element	Range: -40° to 212° F (-40° to 100° C)
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 Rnet connection between sensor(s) and controller 15 sensors max per Rnet network; 5 sensors max per control program
Local Access Port	For connecting a laptop computer to the local equipment for maintenance and commissioning
Environmental Operating Range	-40° to 158° F (-40° to 70° C), 0% to 100% relative humidity, non-condensing
Enclosure	Material: Polycarbonate, UL94V-0, Rating: NEMA, IP66, UV rated
Sensor Dimensions	1.25" (3.18 cm) Diameter Copper Sensor Pad
Mounting	.5 in. (1.27 cm) stainless steel worm gear hose clamp
Regulatory	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 in. (6.35 cm)

Spring holds copper sensor pad ⌀1.25in[31.8mm] conforms to pipe

1/2" NPSM Typ.

4.11in [104.4mm]

1/2" Drillable Port

Adjustable hose clamp fits pipes (un-insulated) from 2in to 4.5in dia. [51mm to 114mm]

5.00in [127mm]

2.50in [63.5mm]