

Overview

Features

- Bendable Copper Sensing Plate (Clamp-On Strap)
- Spring Loaded Sensor Pad (Spring-Loaded Strap)
- Double Encapsulated Sensors
- Etched Teflon Leadwires

Description

Strap-On units provide a way of monitoring water temperature in retrofit or filled pipe applications. They should be used as only a temporary measure as a standard immersion unit with a thermowell will be more responsive. These units simply fit around the outside of a pipe, greatly reducing installation cost. Each unit has a potted sensing pad that measures the water temperature by sensing the surface temperature of the pipe wall. Strap-On units come standard with etched Teflon leadwires and double encapsulated sensors.

By incorporating etched Teflon leadwires and double encapsulated sensors, *ALC* is creating a watertight package which can withstand high humidity and condensation. This is especially important when monitoring water temperature since the potential for and amount of condensation present can be greater. To maintain this watertight package, all electrical connections should be made using a sealant filled connector (**SFC**) and the “J-Loop” technique. These safeguards allow *ALC* sensors to survive long-term even under the most unexpected, moisture-rich conditions.

Options

Clamp-On Strap (-S)

This unit has a bendable copper sensing plate which forms to the curvature of the pipe. An adjustable hose clamp is used to firmly hold the unit in place around the pipe. After installing this device, the pipe should be reinsulated.

Spring-Loaded Strap (-STP)

This unit is designed as a labor-saver. Instead of removing the insulation around the pipe, this unit is spring loaded to hold the sensing pad against the pipe through a hole cut in the insulation. STP's can be used with pipes having up to 2" of insulation.



Clamp-On Strap



Spring-Loaded Strap

Technical Data

Sensor Specifications

- Standard Accuracy:** ± 0.2 °C (0 to 70 °C)
- XP line Accuracy:** ± 0.1 °C (0 to 70 °C)
- Dissipation Constant:** 3 mW/°C
- Stability(drift):** < 0.02 °C / year

Sensor	Reference Resistance	Operating Range
BA/10K-2	10 kΩ @ 25 °C	-55 to 150 °C

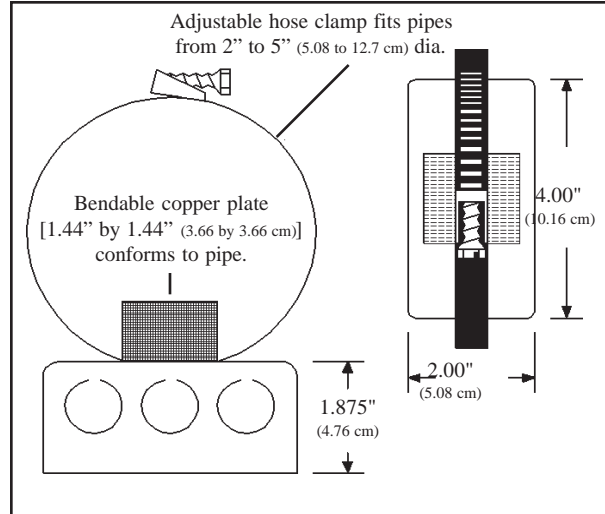


Figure 13: Clamp-On (-S) Unit Dimensions

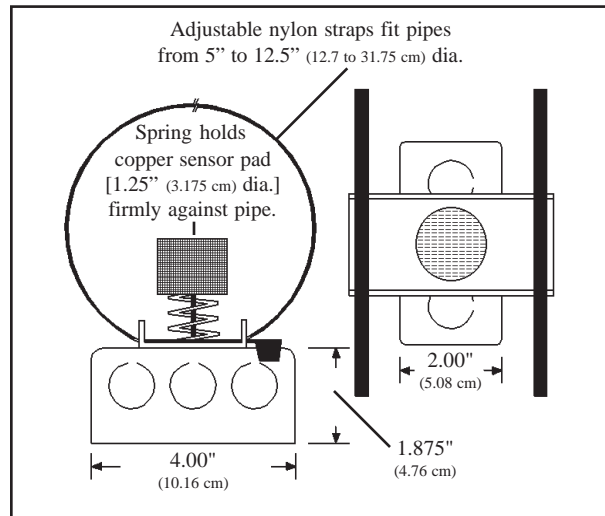


Figure 14: Spring-Loaded Unit (-STP) Dimensions

Ordering Information

ALC/			
	Thermistor	Typical compatible systems for each sensor:	
	10K-2	Automated Logic, CSI, Trane	
	Configuration		
	-S	Clamp-On Strap: Fits 2" to 5" (5.08 to 12.7 cm) pipe with adjustable hose clamp.	
	-STP	Spring-Loaded Strap: Fits 5" to 12.5" (12.7 to 31.75 cm) pipe with adjustable nylon straps.	
EXAMPLE			
ALC/	10K-2	-STP	
Part Number: ALC/10K-2-STP			