

## Overview

- Two sensors in one easily installed package: a solid state low temperature cut-out and an averaging 1000.0  $\Omega$  platinum temperature detector (RTD).
- Low temperature cut-out device that replaces the traditional labor intensive vapor filled devices. The Chill-Out™ Combination Sensor has two sensors in one reducing installed costs
- Environmentally friendly "Green Design" uses solid state sensor construction, eliminating potential leaks and disposal issues with traditional refrigerant vapor-filled capillaries that could harm the environment.
- Solid state design and rugged 3/8" diameter tubing eliminate concerns of gas leaks or kinking of the capillary commonly encountered during the installation of traditional vapor filled devices.
- Mount in any direction—unit is sensitive to temperature changes in any orientation.
- Status LED: (green / red) multifunctional LED. Indicates power on and fault.
- Easily formed aluminum or highly flexible galvanized armor (PVC coated) plenum-rated sensor case.
- Manual reset: selectable latching and non-latching , remote reset may be used with latching mode.
- High and low power relays and adjustable setpoint control circuitry self contained in rugged housing.
- Detachable sensor probe for easy installation. Sensor can be mounted to back of enclosure or side.
- Fail-safe relays change state if power is lost and on startup.
- UL60730 Listed - File E211718.



**Chill-Out  
Combination Sensor**

## Specifications

**Low Limit Cut-out:** Accuracy  $\pm 0.9^{\circ}\text{F}$  ( $\pm 0.5^{\circ}\text{C}$ ) sensitive over any 12" area. Set Point adjustable on control board via dipswitches from 30°F to 44°F (-1.1°C to 6.7°C)

**Averaging RTD:** 1000 $\Omega$  nominal at 0°C 0.00385 curve accuracy Class B

**Operating temperature:** -50°F to 176°F (-45.5°C to 80°C).

(Operating temperature for sensor -50°F to 176°F (-45.5°C to 80°C)).

Electronics inside enclosure 18°F to 122°F (-7.8°C to 50°C)

**Sensor sheath:** Bendable aluminum or Galvanized flexible Steel PVC coated UL 94V-0 and plenum rated.

**Enclosure:** Clear polycarbonate, flame retardant, tested to UL 94-5VA. Suitable for HVAC applications.

**Power requirement:** 24V  $\pm 5\text{V}$  AC or DC 200mA.

Insulation Resistance: 10 Megohms minimum at 100 VDC, Sensor to Case.

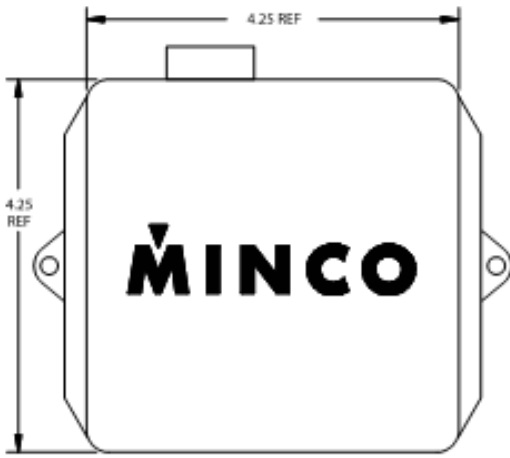
**Installation:** Unit is fully functional while mounted in any direction; Horizontal installation not required. All connections to the board are made using easy-to-connect pluggable terminal blocks.

**Relay Ratings:** See relay ratings on page 2

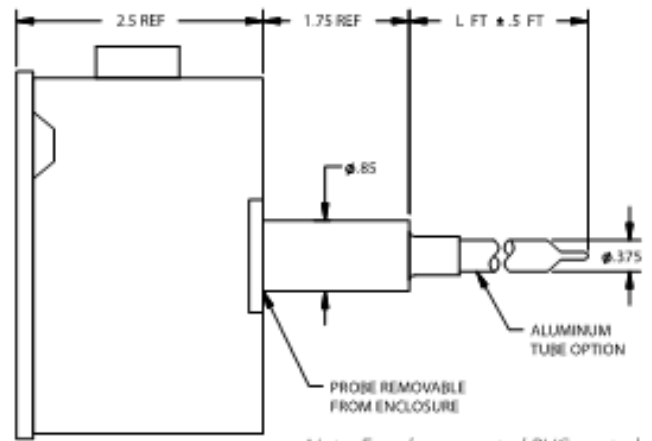
## Specification and order options

<b>AS570</b>	<b>Model number</b>
<b>PF</b>	<b>Element Type:</b> PF = 1000 $\Omega$ RTD (0.00385 Platinum)
<b>8A</b>	<b>Case Type &amp; Case Length L in feet (8 = 8.0 feet).</b>  <b>Available Options:</b> 8A = Aluminum (0.375 Aluminum Tube) 17B = Galvanized (0.53 Galvanized Armor, PVC Coated) 25A = Aluminum (0.375 Aluminum Tube) 25B = Galvanized (0.53 Galvanized Armor, PVC Coated) 50B = Galvanized (0.53 Galvanized Armor, PVC Coated)
	<b>TO ORDER CHILL-OUT ONLY, WITHOUT OPTIONAL TRANSMITTER, STOP HERE.</b> TO ORDER WITH OPTIONAL TRANSMITTER, ADD THE FOLLOWING ORDER INFORMATION.
<b>111</b>	<b>Transmitter (Optional):</b> 111 = TT111 (4 - 20 mA)
<b>A</b>	Transmitter Temp Range: A = 20 to 120°F (See Minco Range Code Guide for other options - <a href="http://www.minco.com/rangecode">www.minco.com/rangecode</a> )
<b>AS570PF8A111A = Sample part number</b>	

## Enclosure Box

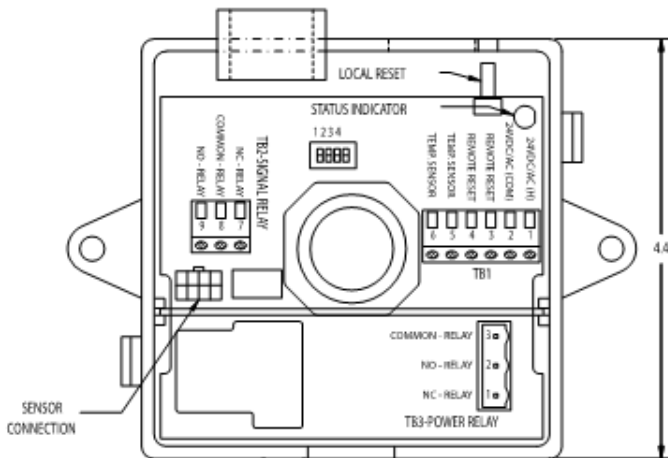


## Enclosure - Aluminum or Galvanized Armor



Note: For plenum-rated PVC coated galvanized steel armor, OD is 0.531\*

## Top View - Cover Not Shown



Note: View Relay Specifications to the right

## Relay Specifications

Contact	Normally Open		Normally Closed	
AC Motor Voltage	120 VAC	240 VAC	120 VAC	240 VAC
AC Full Load Amp	12	8	6	3
AC Locked Rotor Amp	96	48	36	18
Pilot Duty	125VA	125VA	125VA	125VA

## Standard Ordering Options

### Standard Model Options\*

Model	Description
AS570PF8A	Aluminum Probe; 8.0 feet; 1000 Ω RTD (0.00385 Platinum)
AS570PF8B	Galvanized Armor Probe; 8 feet; 1000 Ω RTD (0.00385 Platinum)
AS570PF17A	Aluminum Probe; 17 feet; 1000 Ω RTD (0.00385 Platinum)
AS570PF17B	Galvanized Armor Probe; 17 feet; 1000 Ω RTD (0.00385 Platinum)
AS570PF25A	Aluminum Probe; 25 feet; 1000 Ω RTD (0.00385 Platinum)
AS570PF25B	Galvanized Armor Probe; 25 feet; 1000 Ω RTD (0.00385 Platinum)
As570PF50A	Aluminum Probe; 50 feet; 1000 Ω RTD (0.00385 Platinum)
AS570PF50B	Galvanized Armor Probe; 50 feet; 1000 Ω RTD (0.00385 Platinum)

\* Other models available on special order

## Approvals and Certifications

UL Listed:  
 File E211718  
 CE Certified:  
 Safety – EN60730  
 Immunity – EN61000-4-3, EN61000-4-6  
 Emissions – EN61000-6-3, EN60730-1, EN55011  
 Group 1  
 Class B, FCC Part 15 Subpart B Class