

# Chill-Out™ Combination Sensor

## 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, Class B accuracy

**Operating temperature:** -50°F to 176°F (-45.5°C to 80°C).  
Electronics in enclosure: 18°F to 122°F (-7.8°C to 50°C)

**Sensor sheath:** 0.375" bendable aluminum or 0.53" 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 Ω RTD, Class B (0.00385 Platinum)
<b>25A</b>	<b>Case Length L in feet and Type</b> <b>Standard* Options:</b> 8A = 8' Aluminum Tube 8B = 8' Galvanized Armor, PVC Coated 17A = 17' Aluminum Tube 17B = 17' Galvanized Armor, PVC Coated 25A = 25' Aluminum Tube 25B = 25' Galvanized Armor, PVC Coated 50A = 50' Aluminum Tube 50B = 50' 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>	<b>Transmitter Temp Range:</b> 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>AS570PF25A111A = Sample part number</b>	

\* Other options available on special order

## Relay Specifications

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

## Approvals and Testing

### UL Listed:

File E211718

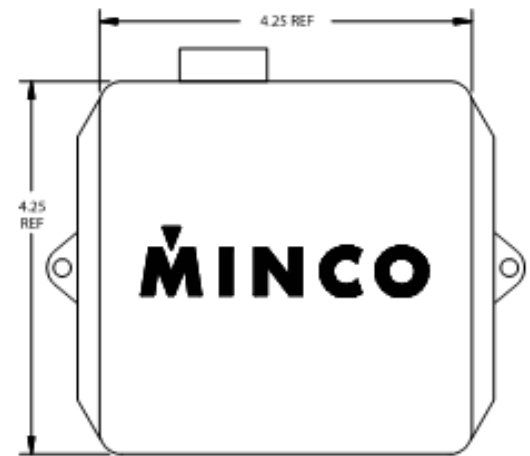
### EMC Tested:

Immunity – EN61000-4-3, EN61000-4-6

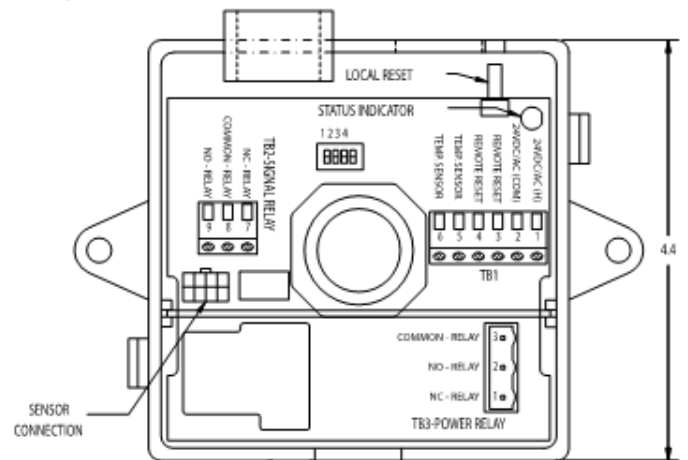
Emissions – EN61000-6-3, EN60730-1, EN55011

Group 1 Class B, FCC Part 15 Subpart B Class

## Enclosure Box

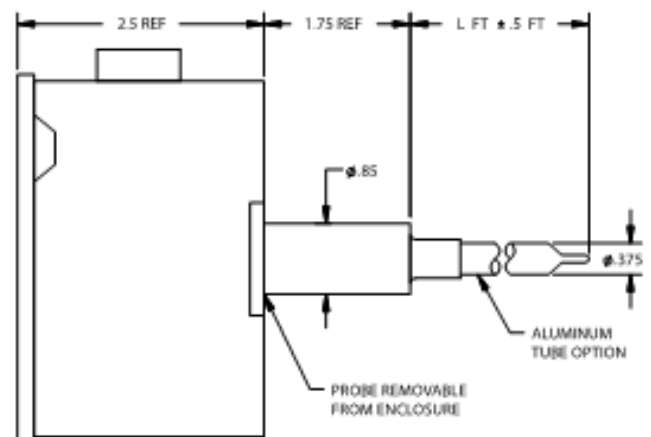


## Top View - Cover Not Shown



Note: View Relay Specifications to the right

## Enclosure - Aluminum or Galvanized Armor



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