

Chill-Out™ Combination Sensor

Overview

- Two sensors in one easily installed package: a solid state low temperature cut-out and an averaging 1000.0 Ω 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.

Specifications

Low Limit Cut-out: Accuracy ± 0.9°F (± 0.5°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: 1000Ω 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.



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Power requirement: 24V ±5V 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.

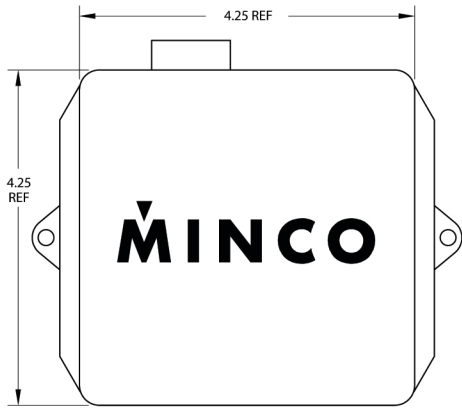
Relay Ratings: See relay ratings on page 2

Specification and order options

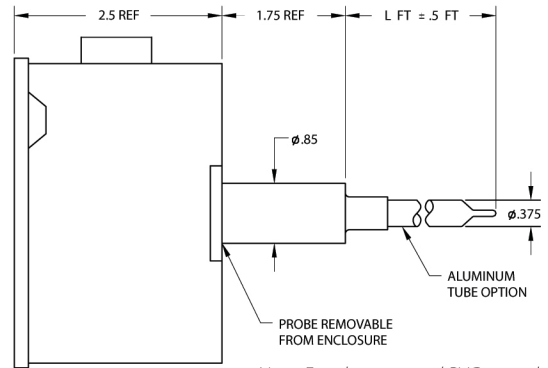
AS570	Model number
PF	Element Type: PF = 1000 Ω RTD (0.00385 Platinum)
8A	Case Type & Case Length L in feet (8 = 8.0 feet). Available Options: 8A = Aluminum (0.375 Aluminum Tube) 17B = Galvanized (0.53 Galvanized Armor, PVC Coated) 25A = Aluminum (0.375 Aluminum Tube) 25B = Galvanized (0.53 Galvanized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

Specifications subject to change
US Patent: 6844805

Enclosure Box

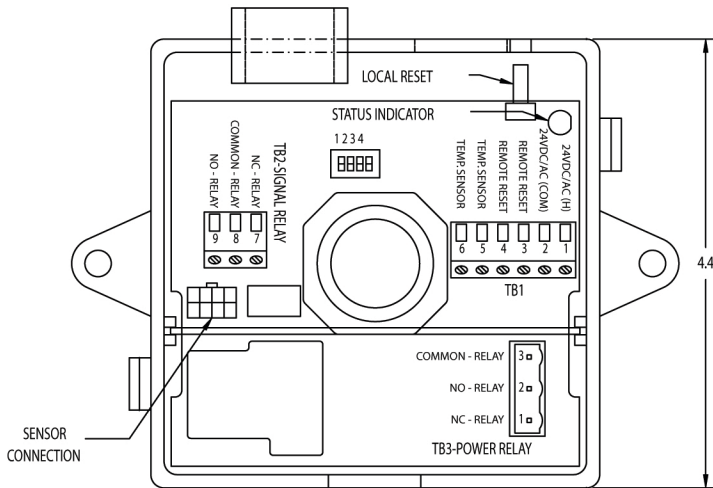


Enclosure - Aluminum or Galvanized Armor



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	125 VA	125 VA	125 VA	125 VA

JCI Ordering Options

Model Options*

Model	Description
AS570PF8A	Aluminum Probe; 8.0 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)
AS570PF50B	Galvanized Armor Probe; 50 feet; 1000 Ω RTD (0.00385 Platinum)

* To obtain pricing for all custom configurations, please contact Minco at 763-412-3935 or email sales@minco.com.

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Tech Spec
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