



HAMPSHIRE CONTROLS CORP.

One Grove St./Box 516, Dover, NH 03820
(603) 749-9424 FAX:(603) 749-9433

Model 125 Temperature Monitor/Alarm



- Easy to read LCD display
- Audio/Visual alarms
- Selectable audio mute period
- Adjustable & displayable alarm settings
- Three operational ranges from -100°C to +125°C
- Options:
 - ⇒ Low alarm setpoint
 - ⇒ NiMH battery backup
 - ⇒ 0.1°C display
 - ⇒ SPDT alarm contact output
 - ⇒ °F display
 - ⇒ Thermocouple sensor
 - ⇒ 10mv/°C output
 - ⇒ 4-20 mA output

This is a single probe temperature alarm, covering -100°C to +125°C in three factory-set ranges, housed in a wall-mounted or free-standing box. The basic unit includes alarm on high temperature, with audible and visual alarm indicators (beeper and LED), settable mute and alarm "chirp" periods, and a UL listed plug-in power supply.

Available options include thermocouple input, contacts for remote alarm activation, low temperature setpoint, 10mv/°C voltage or 4-20 ma output for recorder or data logger, readout in degrees Fahrenheit, alarm condition latch, 0.1 degree resolution, and an internal battery and charger for operating during power failure. An optional extended panel is also available, for direct mounting into a wall or cabinet panel opening.

Features to make this instrument suitable for applications such as built-in monitoring of freezers, refrigerators and walk-in environmental chambers include temporary muting of the alarm beeper for user-selectable periods up to 30 minutes (the beeper cannot be disabled completely); optional relay contacts indicating a temperature alarm condition or power failure, for hookup to a remote alarm device or telephone dialer.

In case of power failure, the unit will go to battery mode for up to 100 hours, shutting down all circuitry except a periodic "chirp" of the beeper and short flashes of the red "Alarm" LED to conserve power. Temperature readout is activated by pressing the "Delay" button, to read product temperature without opening the chamber.

A central monitoring system for up to 32 channels is available using our Dataplex-32, which is designed to supply power and read out up to 32 Model 125's. For over 32 points, the PC-based Central Monitoring System (CMS) is available.



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Power Requirements	9-30 volts DC, 25 mA maximum (220V optional)
Battery Option	7-cell, NiMH, 8.4 volt 120 mA*hr, with 2 mA trickle charger, built in (option B).
Standard Sensor	Current source IC in 1.25" x .25" dia. case, waterproof, with a 10' lead wire
Temperature Ranges	<ul style="list-style-type: none">• -100°C to +25°C (Model 125-25)• -50°C to +50°C (Model 125-50)• 0 to +125°C (Model 125-125) (1° F ranges are available, option F)
Resolution	1° C standard, 0.1°C (option H)
Accuracy	± 1° C standard, ± 0.1°C (option H)
Thermocouple Option	<ul style="list-style-type: none">• Model 125-400, Type "K" thermocouple: 0-400°C ± 1°C• Model 125-200R, Type "T" thermocouple w/8" s.s. sheath: -200°C to -120°C• (other ranges per special order)
Mechanical	Case is black bakelite, 5"w x 4.25"h x 1.75" deep, wall mount with Velcro or set on bottom edge. All wires exit through side.
Outputs	<ul style="list-style-type: none">• SPDT relay contacts on alarm relay (option R)• 10mV per degree (option V)• 4-20 mA output (option I)

NOTE: There is a one year warranty on all Hampshire Controls products.