



Model 12213

## Certified Refrigerator/Freezer Alarm Thermometer System

User Manual



### INTRODUCTION

This thermometer features an enclosed temperature-buffered sensor ensuring accurate temperature measurements that are not impacted by rapid temperature fluctuations caused by frequent refrigerator/freezer door opening. It also mimics temperature readings in a medium similar to the common fluids stored in refrigerators and freezers used in labs.

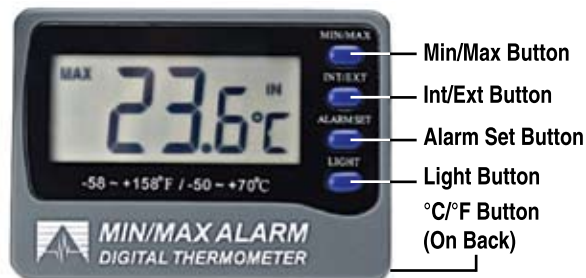
### FEATURES

- Fast response stainless steel external sensor attached to a 10-ft. (3 meter) cord and sealed in a bottle with propylene glycol, classified as a GRAS solution (Generally Recognized As Safe)
- Internal sensor for monitoring air temperature
- Min/Max memory for storing the lowest/highest temperature reading for the internal or the external sensor
- Min/Max alarm setting features audible warnings for out-of-range temperature conditions measured by the external sensor
- Selectable °C/°F (Defaults to °C)

### ALARM SET INSTRUCTION

- To start the unit, open the battery cover and remove the plastic barrier strip from the battery compartment.
- Press the C/F button on the back to select temperature unit.

- Press the Min/Max button to display maximum measured value. Press the button once more to display minimum measured value. Press again to return to normal display. Press and hold Min/Max button about 2 seconds to reset memory to current reading.
- Press Int/Ext button to display outer sensor temperature. Press the button again to display normally.
- High/Low Temperature alarm setting (External sensor only)
  - a. Press and hold the Alarm Set button for about 2 seconds; the HIGH and OUT icons will flash.
  - b. Press the C/F button to set the alarm high limit.
  - c. Press the Alarm Set button again, the LOW and OUT icons flash.
  - press the C/F button to set the alarm low limit.
  - d. Press the Alarm Set button once more to finish setting and display normally.
  - e. Press the Alarm Set button to turn the alarm on or off.
- When a temperature excursion occurs, the alarm will sound 3 times then once every 60 seconds and the AL icon will flash. Press the Alarm Set button to turn the alarm off.



## SPECIFICATIONS

<b>Temperature Range</b>	Internal Sensor: 14°F to 122°F (-10°C to 50°C) External Probe: -13°F to 104°F (-25°C to 40°C)
<b>Accuracy</b>	Internal Sensor: ±1.8°F (1°C) External Probe: 1°F (.5°C) from -13°F to 104°F (-25°C to 40°C) Otherwise 1.8°F (1°C)
<b>Sensor Type</b>	Thermistor
<b>Probe Type/Size</b>	Stainless Steel Probe .875" L x .2" Dia. / (17.8mm L x 5mm D) inside of an 8cc glycol filled vial 2.5" L x .675" Dia. 64mm L x 17mm Dia.
<b>Temperature Scale Select</b>	°F/°C button on back of case
<b>Display Reading Update</b>	10 seconds
<b>Resolution</b>	0.1°F (0.1°C)
<b>Alarm</b>	Hi/Low alarm
<b>Battery Type/Life</b>	1.5 Volt AAA / 1 year
<b>Body Casing</b>	Polycarbonate and ABS plastics
<b>Product Size</b>	2.9" W x 2" H x .6" D / 73.5mm W x 52mm H x 15mm D
<b>Display Window Size</b>	1.9" W x 0.8" H (48mm W x 21mm H)
<b>Certification</b>	CE Mark, N.I.S.T. traceable



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