DeltaTrak

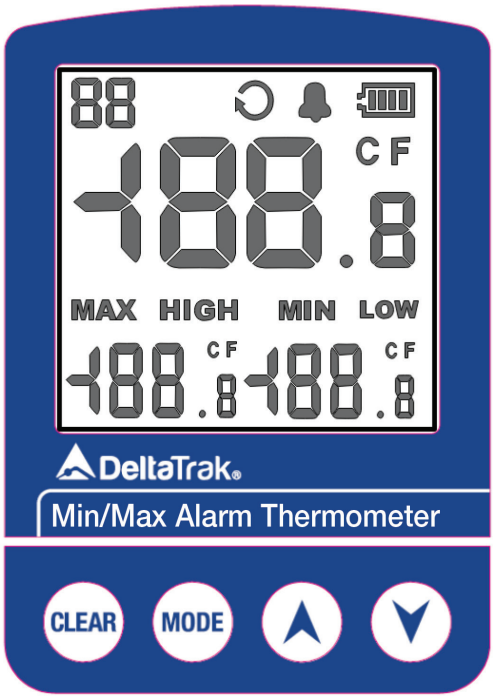
User Guide

FlashCheck® Model 12237

Certified Min/Max Alarm Thermometer


Serial No.
Model No.
Calibration Due:
800-390-0804 By:
DeltaTrak, Inc.

Table of Contents



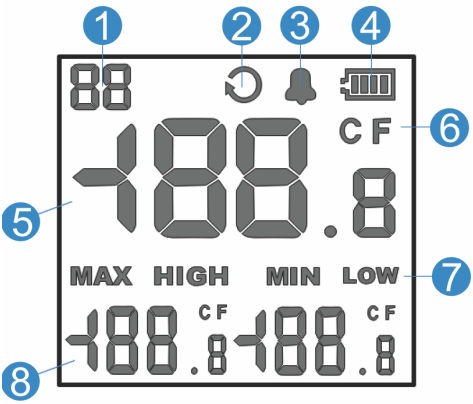
Before you begin

Check Inside the Box	Qty
Thermometer	1
Glycol Bottle Sensor	1
Alkaline 1.5v AA Battery	1

Install a New Battery

- Open the battery door located on the back side of the enclosure by removing the retaining screw
- Observe and follow the battery polarity (+/-)
- Insert the battery into the battery holder
  The LCD will light up and you will hear a beep. Then the device displays the temperature reading from the sensor and the current Max and Mi readings.
- Close the battery door and tighten the retaining screw

Liquid Crystal Display (LCD)



1. Configuration Menu Index
2. Max-Min Reset Icon
3. Alarm Icon
4. Battery Level Indicator
5. Current Temperature Reading
6. Temperature Scale Icons
7. Max-Min, High-Low Icons
8. Max-Min, High-Low Readings

Control Buttons

The device has four buttons from left to right in this order:

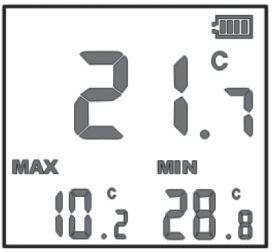
- Clear Button
  Use to clear the Alarm indication, the Max-Min memory or a setpoint value during device configuration
- Mode
  Use to switch between Max-Min and High-Low view modes or enter the Configuration menu
- Up Arrow
  Use to increase a set point value or recall the last alarm trigger reading
- Down Arrow
  Use to decrease a set point value

Note: The instrument has no power off button, so if it needs to be stored without power then the battery must be removed

Basic Features

Display Modes

- Max-Min Reading
  The LCD displays the current temperature reading, the maximum reading and minimum readings. This is the default operation mode.



- High-Low Alarm
  The LCD displays the current temperature reading and the High and Lo alarm set points.

  Note: High-Low Display Mode is only available when the Alarm option is enabled in the Configuration menu (see below)

Changing the Display Mode

Click the Mode button to switch between the two display modes.

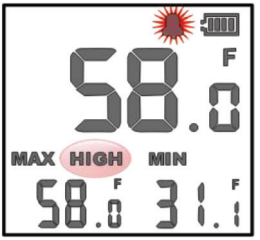
Resetting the Max-Min Memory

While in Max-Min display mode with no Alarm indication click the Clear button.

The Max-Min memory is cleared and the Reset icon is displayed until the next sensor reading is taken.

Note: During Alarm indication the first click of the Clear button will cancel the Alarm indication. Click again to reset Max-Min memory.

Alarm Indication



Alarm indication must be enabled in the configuration menu and the High Low Alarm set points must be set. When the sensor's reading exceeds the Alarm set points, Alarm condition occurs. The device will indicate Alarm by displaying the Bell icon and a flashing red LED behind the icon. At the same time the HIGH or LOW icon text will be flashing, showing which set point was violated. If the alarm sound option is enabled in the configuration menu, the device will also beep when the red LED flashes.

Note: The Alarm indication will continue until it is canceled by the Clear button.

Configuring the Thermometer

Clearing the Alarm Indication

During Max-Min or High-Low display mode click the Clear button. The Alarm indication is reset until the sensor reading is again above or below the High or Low alarm setpoints respectively.

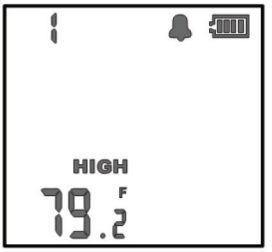
Entering the Configuration Mode

When the Alarm option is disabled(default) click the Mode button to see the first option of the Configuration menu. If the Alarm option is enabled then click and hold the button until you enter the Configuration mode (~3 sec).

Navigating the Configuration Menu

Once in the Configuration menu, click the Mode button again to see the next configuration option. These have the following configuration options:

- High Alarm Setting (Menu # 1)
  The High Alarm setting is displayed flashing. Click or press and hold the Up or Down buttons to adjust the default High Alarm setting or click the Clear button to set it to zero.



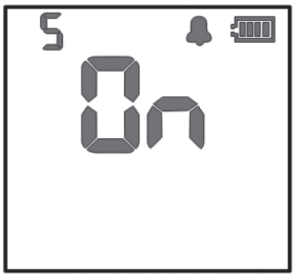
- Low Alarm Setting (Menu # 2)
  The Low Alarm setting is displayed flashing. Click or press and hold the Up or Down buttons to adjust the default Low Alarm setting or click the Clear button to set it to zero.

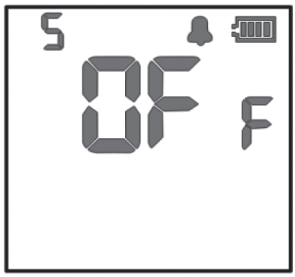
- Alarm Delay (Menu #3)
  The alarm indication can be delayed after a number of consecutive readings in alarm (up to 199 readings). The delay setting is displayed flashing with default value of zero.
  Click or press and hold the Up or Down buttons to adjust the setting or click the Clear button to set it to zero.

  - Enable Alarm Option (Menu #4)
    The setting is displayed flashing as “On” or “Off”. Click any of the Up or Down buttons to switch between On and Off.

  Note: Low-High Display Mode is only available when the Alarm option is enabled (see Display Modes above)

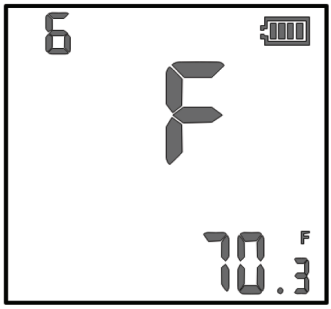
  - Enable Sound Alarm (Menu #5)
    The setting is displayed flashing as “On” or “Off”. Click any of the Up or Down buttons to switch between On and Off. When the option is “On”, the bell icon flashes every 3 seconds with a beeping sound.
  - Exiting the Configuration Menu
    After menu # 6, click the Mode button again to exit the Configuration mode or leave it to expire after 1 minute and return to the previous display mode.





- **Temperature Scale Setting (Menu #6)**

  The setting is displayed flashing as “C” or “F”. Click any of the Up or Down buttons to switch between C or F. The last sensor reading is displayed in the lower right corner of the LCD in the currently seleced scale.



Battery replacement

The Thermometer can operate with low battery indication for at least 10 days. During that time only one bar is visible on the battery level indicator. When no battery life is left the indicator is empty and flashing. The battery must be replaced when this condition occurs. The configuration settings will be preserved when the battery is replaced with in 1 min after removing it from the instrument.

Summary

Glossary	Definition
MAX	Maximum Temperature reading since last reset.
MIN	Minimum Temperature reading since last reset.
HIGH	High alarm set point. Upper limit at which the Alarm will be triggered.
LOW	Low alarm set point. Lower limit at which the Alarm will be triggered.
Default Screen	The LCD displays the current temperature, the Max-Min readings and if the alarm was triggered, a flashing HIGH or LOW indicator.
Mode Screen	Pressing MODE toggles six menu options

Control Button Functionality

Control Button	Default Screen		Configuration Mode Screen
CLEAR	If an Alarm has been triggered, pressing CLEAR, resets the Alarm indicator (Bell icon) and clears the High/Low flashing indicator from the display.	If no Alarm has been triggered, Pressing or holding down CLEAR, resets the Max-Min memory. The Reset indicator icon appears for 30 seconds.	Clears entry value.
MODE	Pressing MODE once, switches between Max-Min and High-Low views if High-Low values were entered. Otherwise, it moves to Configuration Menu Mode.	Hold down MODE for 3 seconds to enter Configuration Menu Mode.	Pressing MODE, changes screen to the next menu option.
	Only used during configuration Mode.		Increase a set point value. Decrease a set point value.

Configuration Menu Options

Menu Option	Mode Setting	Default	Description
1	High Alarm	Current Reading	Enter upper temperature limit. This mode to operate requires Alarm to be enabled (Menu option 4).
2	Low Alarm	Current Reading	Enter lower temperature limit. This mode to operate requires Alarm to be enabled (Menu option 4).
3	Alarm Delay	0	Select up to 199 consecutive 30 second delay intervals.
4	Enable Alarm (On or Off)	On	On: Alarm is enabled. The Menu Options 1 & 2 become operational. When an Alarm is triggered, the bell icon with flashing red light appears. Off: Alarm is disabled. The Menu Option Settings 1 & 2 are not operational.
5	Sound Alarm (On or Off)	Off	On: when alarm is triggered, a beeping sound will be activated.
6	Temperature Scale (°C or °F)	°C	Use Up & Down arrows to select Celcius or Farenheit scale.

Notes:

Limited Warranty

DeltaTrak instruments have a limited warranty period of 1 year against defects in materials and workmanship from the date of purchase. Accessory items and sensors have a limited warranty of 3 months. Repair services have a limited warranty period of 3 months against defects in materials and workmanship. DeltaTrak shall, at its option either repair or replace hardware products that prove to be defective, if a notice to that effect is received within the warranty period. DeltaTrak makes no other warranties or representations of any kind whatsoever, expressed or implied, except that of title, and all implied warranties including any warranty of merchantability and fitness for a particular purpose are hereby disclaimed.

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DeltaTrak manufactures products under an ISO 9001:2015 registered quality management system

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