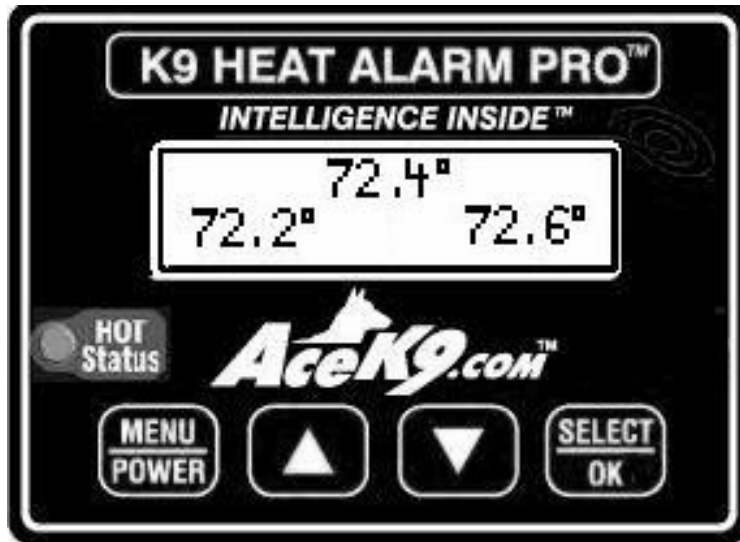




A division of Radiotronics, Inc.

## Model HA-2510



# Owners Manual

Operating Instructions

Patent # 7,081,811

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# Introduction

The K9 Heat Alarm® Pro is a state of the art product designed and developed by the AceK9.com™ division of Radiotronics, Inc. It is a unique blend of positive features taken from actual field use of our K9 Heat Alarm® plus the incorporation of a microprocessor control system.

**Monitoring features:** The K9 Heat Alarm® Pro monitors the vehicle's interior Temperature and Battery Voltage. The Handler will be alerted by honking the Horn, rolling down both rear Windows\*, activating Emergency Lights, and Siren. Additional options are Available

- ✓ Temperature Sensor Averaging – to reduce false alarms.
- ✓ Exclusive S.O.S Horn Honk™.
- ✓ Non-Volatile Memory – Temperature and other settings are maintained in memory when power is disconnected.
- ✓ Dual Window Drop. *\*Rear windows do not drop in cold alarm*
- ✓ Menu allows you to adjust settings to your needs.
- ✓ Temperature Sensors Monitor – Warns of damaged sensor and sets off Alarm if both Temperature Sensors are damaged.

## **Optional Monitoring features:**

- E.S.M. Engine Stall Monitor™ – Alerts of Engine Stall BEFORE the vehicle's interior gets too hot or cold.
- No K9 Left Behind - K9 removal reminder system
- Smoke Detector
- Carbon monoxide detector

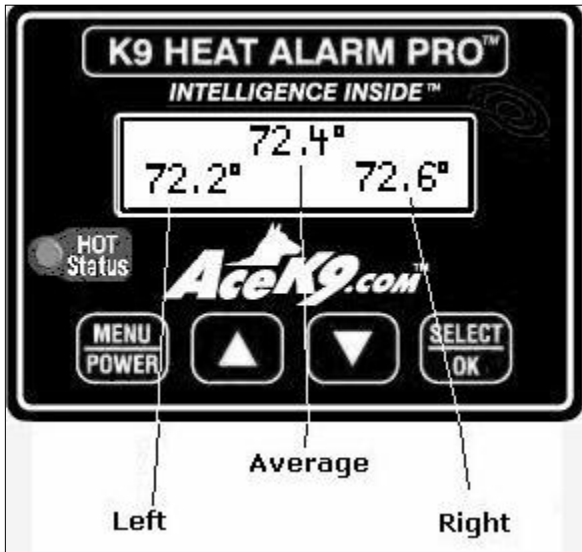
# Overview

**Factory Default settings are based on the most commonly requested settings selected by k9 handlers. You can customize them to your needs.** See menu choices section.

Power:	On/Off with vehicle.
Hot Set Point:	90°
Cold Set Point:	Disabled
Engine Stall Monitor:	Enabled (Disable if not purchased).
Auto Snooze Mode:	Enabled
USA or Metric	Fahrenheit
Temperature Averaging	Enabled

**Dual Temperature Sensor Averaging™:** The individual Temperature Sensor readings are displayed along with the average temperature. This enables the K9 Heat Alarm® Pro to obtain more accurate reading of the interior temperature of the vehicle. With averaging enabled, unnecessary

false alarms are avoided in marginal temperature conditions or when one of the Temperature Sensors is in a warmer/cooler location. (Example: direct sunlight or open window). In order to activate the alarm, the AVERAGED (center) Temperature Sensor readings must reach the alarm threshold setting (90° Hot Default). As an additional safety measure the heat alarm is activated if either Temperature Sensors reading goes 10 degrees above the threshold setting.



Disable Temperature averaging if monitoring two separated locations. To change see the Menu choices section.

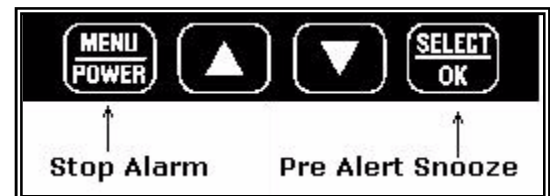
## Operation

**IMPORTANT safety reminder:** It is the responsibility of the Installer and the Handler to confirm that all safety features are installed and working properly at the time of installation.

**Heat Alarm Power:** The Heat alarm will turn on with the ignition. When the ignition is powered off the heat alarm will power down. This requires you to leave the vehicle running with the air conditioner ON to maintain a safe environment for the canine, and remove the K9 if the vehicle is off. If your environment allows for the canine to be left in the vehicle with the ignition off, The setting should be changed to ON/Off manually, On with Car and OFF manually, or No K9 Left Behind (optional hardware required).

**Standard Operation:** The Left, average, and right Temperatures are displayed in the primary screen; the Vehicle's Battery Voltage is displayed periodically. When the K9 Heat Alarm® Pro has detected safe conditions the HOT status light will illuminate, indicating that temperature is being monitored.

**Snooze Mode:** At start up, Snooze Mode will automatically appear if there is an over temperature or another condition that requires attention. A Snooze period of approximately 10 minutes allows time to



get the vehicle running and cooled down for the safety of your K9. When the K9 Heat Alarm® Pro does not detect a safe condition at the end of the snooze period the Pre Alert alarm will activate. Snooze can be manually reactivated (By pressing OK). Only 3 snooze periods are allowed.

**Note:** During Snooze, the Handler is responsible to monitor the conditions of the canine.

## **Alarm Modes**

**Pre-Alert Mode.** During Pre-Alert a description of the unsafe condition will Display, along with flashing light and warning tone for 40 seconds. This allows the K9 Handler to put the unit into Snooze Mode or turn Off the K9 Heat Alarm® Feature before the Full Alarm is activated.

**“FULL ALARM” Mode** During full alarm all installed Alert Features are activated. The K9 Heat Alarm® Pro will continue the Full Alert Alarm Mode until the temperature or other condition in the vehicle returns to a safe condition or until the [MENU] key is pressed. If a safe condition is detected by the system; the Full Alert Alarm Stops and the Display shows a Reminder Note to advise the K9 Handler that an alarm has occurred.

**Clearing reminder:** To clear the Alarm Reminder, Press [OK] while the Note is being displayed.

**Temperature Alarm:** When a temperature that is above the (averaged) Hot Set Point or below the Cold Set Point is sensed K9 Heat Alarm® Pro goes into Pre Alert. If it remains hot the unit will go into full alarm.

**Engine Stall Monitor™ Option** (Purchased separately): With the stall sensor option installed and enabled in software, the Hot-N-Pop® Pro will monitor the engine. When the engine stalls “Engine Stalled/Pre-Alert Mode” is displayed allowing the K9 Handler to Restart the Engine or Snooze. If no action is taken the Full Alarm is activated.

**Vehicle Battery Sentinel™:** The vehicle’s Battery is monitored and the Voltage is displayed. If Battery Voltage stays below 11.5 Volts a warning is displayed and the unit enters Low Voltage mode. The Full Alarm is activated for a short period of time lowering rear Windows providing ventilation for the K9. The Alarm will activate again every few minutes as long as there is enough battery power.

**Temperature Sensors Diagnostics:** The Temperature Sensors are continuously monitored; if one of the Sensors is damaged or a connection is lost, the K9 Heat Alarm Pro will automatically disable Averaging and operate off of the working sensor. Periodically a warning message and beep will occur to notify the handler. If both Temperature Sensors are damaged, the warning message is Displayed, Pre alert starts, followed by Full Alarm activating.

**Self Diagnostics:** The K9 Heat Alarm Pro continuously monitors its internal systems. If a detectable problem exists that would prevent the system from operating properly the system will go into Full Alarm mode.

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***\*\*\* It is important to remember that, while every effort to monitor the system is taken, there is no substitute for doing the Weekly tests outlined in this manual. \*\*\****

# Changing Settings

## **Light Intensity adjustment.**

The light intensity is controlled by using the [Up] & [Down] arrow keys. The lights automatically dim, when the vehicle's ignition is turned OFF (press the OK key to return it to the original intensity).

**Menu Mode:** To enter menu mode, power up the K9 Heat Alarm® Pro, then press the [MENU/POWER] key. To view Menu items Press the [Down] key for the next item or the [Up] key for the previous item. To change a Menu item press the [OK] key. The [Up] and [Down] keys let you scroll through the available settings. To choose a setting, press the [OK] key. To exit without making changes press the [MENU] key. Additional changes can be made or press the [MENU] key to exit the Menu Mode. When returning from the Menu Mode, you will see a review of all the settings.

## Menu Choices

### **Heat Alarm Power**

**Default setting is "On/Off with Car"** This will turn the Heat Alarm ON & OFF with vehicles ignition, most commonly the Engine and A/C are usually left ON to maintain the vehicle's interior temperature. Remove the K9 if the vehicle is off.

**Alternative Setting "Car on Manual off"** The Heat Alarm will turn ON with ignition and OFF by Keypad. This is the safest method. The unit will automatically turn ON with the vehicle but will only turn OFF when you depress and hold the menu key.

**Alternative Setting "On/Off Manually"** The Heat Alarm will only turn ON or OFF with Keypad.

**Alternative Setting "Off all the Time"** The Heat Alarm feature is disabled requires re-enabling through the Heat Alarm Power Menu.

**Alternative Setting "No K9 left behind"** the Heat alarm will turn on with ignition and off when ignition power is off and the Door is opened to remove the K9. See user supplement sent with this option (Sold separately)

### **"Heat Alarm Temp" Hot Set Point**

**Default setting is 90°** to activate the Heat Alarm but can be adjusted from 77° to 95° as your needs require.

### **"Cold Alarm Temp" Cold Set Point**

**Default setting "disabled"**. The cold Alarm but can be set as your needs require.

## Menu Choices Continued

**Stall Monitor** *Default setting is "Enabled".* When an optional stall sensor is not purchased this feature should be disabled.

*Alternative Setting: Disabled*

**Temperature Averaging** *Default setting is "Enabled"* so the Temperatures of the Dual Temperature Sensors are AVERAGED thus reducing false alarms.

*Alternative Setting: Disabled*

**Auto Snooze Mode** *Default setting is "Enabled"* so Auto Snooze Mode temporarily disables the Heat Alarm to allow time for the vehicle to cool down during start up.

*Alternative Setting: Disabled*

**USA or Metric** *Default setting is "Fahrenheit"*

*Alternative Setting is "Celsius"*

## Test & Diagnostic features

**Previous Alarms** Displays the five previous causes of the Alarms.

**Serial Numbers** Displays the Serial Numbers of the Control Head and the IntelBox.

**Reset to Default** Resets all features to their respective Factory Default settings.

**System Test** Pressing [OK] will begin a System Full Alert Test activating the window drop, SOS Horn, Lights, Siren and Pager. Other Add on options such as K9 Cellular Communicator™, fan, and Radio Voice Module will also activate. Followed by a Pixel test, that will fill all the pixels in the display, both top and bottom. Ending with a Push button test will allow testing of each of the Menu Keys. If any of these tests fail contact your installer or [acek9.com](http://acek9.com) for further assistance.

# **K9 Heat Alarm® Pro**

## **Weekly System Test Procedure**

K-9 should not be in the vehicle during these Tests.

Turn the system on, Observe the Feature Settings during power up, Check the Temperatures and Vehicle's Battery Voltage.

### **K9 Heat Alarm Output Tests**

Confirm that the Displayed Temperatures are below the Heat Alarm Hot Set Point and the System is not in Snooze Mode. Press the MENU key to enter menu mode. Move down to the menu choice "System Test", Press OK to activate all the installed Heat Alarm Alert options. Verify that ALL the installed Heat Alarm Alert accessories and options worked.

### **Temperature Sensors Test**

Turn the Vehicle's Climate Control to the Heat position to manually raise the temperature inside the vehicle. Monitor the temperatures displayed on the heat alarm and confirm that the alarm activates when the Hot Set Point is reached. Visually inspect the wiring and electronic components and confirm that the location of the Temperature Sensors is just outside the K9 container and not in direct sunlight.

## **Testing of Add on Options**

The following procedures are for items added on to the original K9 Heat Alarm Pro. If not purchased with the original unit, they may be added on in the future. Visit [www.acek9.com](http://www.acek9.com) for more information.

### **Engine Stall Sensor Test**

Turn the Ignition to the ON position WITHOUT Starting the Engine. Note that after the system completes the startup messages it beeps and displays the "Engine Stall Alarm". If snooze mode is enabled the "Hot Status" light will turn off for 10 minutes. After 10 minutes the alarm will sound. If snooze mode is deactivated the unit will go into full alarm with out delay.

**Fan Kit:** During the weekly Heat Alarm test the fan will turn on during system and over temperature tests. In addition the fan should turn on manually from the toggle switch. The fan should always blow in toward the K9.

For Other Options see instruction manual that was provided

If any tests fail contact you installer or AceK9.com for assistance.

**AceK9.Com Two (2) Year Limited Warranty**

For details visit <http://www.acek9.com>

