

OTHER POINTS TO NOTE

- The HotSpotter incorporates a sensitive specialised Infrared transmitting lens. This is covered by a Lens Protector (A whitish plastic disc at the front of the unit). **Do not remove this Lens Protector.** The HotSpotter has been designed to work with this in place. In the event that the lens protector gets damaged or badly scratched it can simply be prised off the main body and the spare supplied in the original package pressed into its place. Ensure that the new Lens Protector has clicked fully into place.
- The HotSpotter views a cone of approximately 7 degrees angle and reacts to the average temperature in its view. The further away the HotSpotter is from the surface being viewed, the wider the area of viewing. *See diagram.*
- There is a 'gun sight' moulded in to the top of the main housing. Looking along this sight gives a good idea of where the HotSpotter is being directed. *See diagram.*
- The HotSpotter incorporates a location for attaching a lanyard. *See diagram.*
- The HotSpotter is fully sealed and watertight. But it is not usable under water.
- The HotSpotter is fully solid state and the housing is made from a polycarbonate blend that means it will withstand the usual knocks and bumps associated with fire service working.
- If left switched on for more than 5 minutes without any button being pressed the HotSpotter will switch itself off.
- The HotSpotter is guaranteed for one year of normal use. There are no serviceable parts inside. Opening the main housing will void the warranty.

For more information see www.hotspotter.net



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THE HOTSPOTTER™ INSTRUCTION MANUAL

OVERVIEW

The HotSpotter™ is a simple hand tool for fire-fighters and others involved in fire prevention and detection. It detects and locates small areas which are hotter than the surroundings. Both in a building and outdoors. It senses the infrared radiation being emitted by a local hot spot. By scanning a wide area it allows the user to quickly detect and locate a region for further investigation and action.

The HotSpotter™ has both audio and multi-coloured LED outputs. In simplistic terms the audio output is similar to a Geiger counter: The hotter the area compared to the surroundings, the higher the frequency. Similarly the LED's form a simple multi-coloured bar graph indicating the temperature change from ambient.

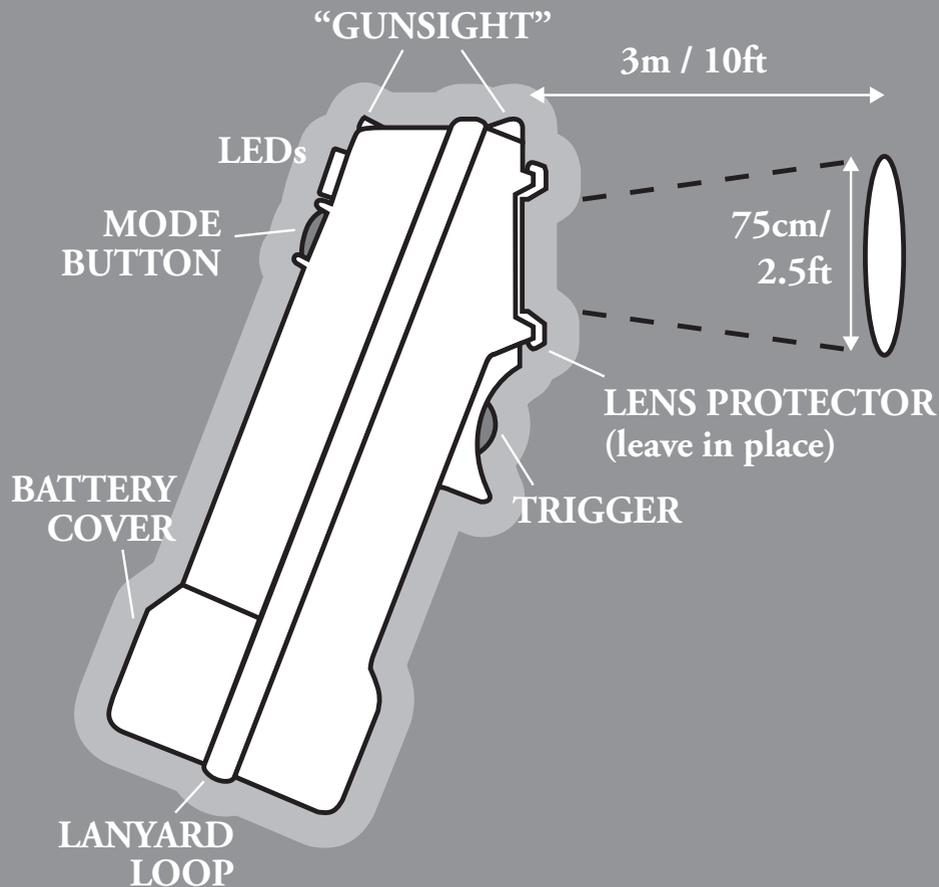
The HotSpotter™ is robust and watertight. It runs off a standard 9 Volt alkaline battery which will last for up to 20 hours of continuous use.



GETTING STARTED

After removing the HotSpotter from its packaging install a new 9 Volt alkaline battery:

- First remove the battery cover by unscrewing the 2 screws at the lower end of the device. See diagram below.
- Insert the new battery and make the connection to the battery terminal. You will hear one short 'beep' to indicate the HotSpotter has power. It will then switch itself off.
- Replace the battery cover.
- You are now ready to start using the HotSpotter



BASIC USE

To turn on the HotSpotter simply press the front red button for a brief moment. The HotSpotter will light all the LEDs and make one or two short 'beeps'*. It will then start working. It always assumes that the temperature in front at the moment of switch on is ambient, and will start at a low frequency output and with the green LED lit. The HotSpotter will adjust its range automatically so that it is always capable of detecting a change in temperature, thus indicating the existence of a Hot Spot. This 'auto-ranging' feature ensures that the HotSpotter will always be looking for small changes in temperature, whatever the ambient temperature is.

To turn the HotSpotter off simply press the red button once again for a short time. The HotSpotter will switch off and will then be ready for the next use. The battery will last for approximately 20 hours of continuous use. When the battery is beginning to run low it will make a downward going frequency sound when first switching on. It is then time to renew the battery.

** One beep indicates the HotSpotter is in Normal sensitivity. Two beeps indicate High sensitivity. In High sensitivity the temperature change needed to move through the full scale of sound and LEDs is approximately 10 degrees centigrade. 100 degrees for Normal sensitivity.*

CHANGING MODE OF OPERATION

There are four modes of operation.

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|-----------------------|---------------------|
| 1. High sensitivity | Low sound volume |
| 2. High sensitivity | Higher sound volume |
| 3. Normal sensitivity | Low sound volume |
| 4. Normal sensitivity | Higher sound volume |

To change mode simply switch on the HotSpotter as described above. Then press the red 'Mode' button located just below the LEDs. Each press changes the mode through one step. And this is indicated by one or two 'beeps' at either low sound volume of higher sound volume. The HotSpotter remembers the mode it was in when it was switched off and will start up again in this mode.

COMPARING TWO TEMPERATURES

Sometime it can be useful to check whether one spot is hotter than another. For example when checking whether a starter/choke in a fluorescent light is overheating. To achieve this aim do the following:

- Switch on the HotSpotter
- Point it at one of the areas to be checked.
- Press and hold the front red button until a 'beep' is heard. The user will also note that both the red and green LED are lit up
- Release the red button. The HotSpotter will now show the Green and Amber LED and will hold this as a reference temperature for approximately 15 seconds.
- Move the HotSpotter to the other point under investigation and note what happens. If the output of the LEDs goes to green the second point is cooler than the first. If the LEDs indicated amber or red, then the second temperature is higher.
- After 15 seconds, the HotSpotter will revert to normal operation where the reference point may alter to suit ambient conditions. (Automatic range adjustment described above) There will be a series of short beeps to let the user know that normal operation has resumed.