

**APPENDIX I**  
**USERS MANUAL**

## Table Of Contents

1. Introduction.....	3
2. List of needed equipment.....	3
3. System set-up.....	2
3.1. A Single Base with Multiple Remotes.....	2

## FCC Statement

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to a radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Re-orient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Shielded cables and I/O cords must be used for this equipment to comply with the relevant FCC regulations.

Changes or modifications not expressly approved in writing by Diablo Research Corporation may void the user's authority to operate this equipment.

This manual shows how to set up a Whisper base station with up to fifty Whisper remotes and be able to monitor gas usage in the installed network.

## 1. Equipment List

- 1 Computer 386 or better. With 8 Meg memory, mouse, serial port, EGA monitor.
- Software dos 6.0 or better and Windows 3.1 and host (supplied)
- 1 Whisper Base with a special serial cable (supplied) and a 110 VAC cord (supplied)
- Shorting jumpers (supplied)
- 1 Whisper Remote (supplied) for each monitoring point for a maximum of fifty per one Whisper Base Station Repeater.

## 2. System Set-up

### 2.1. A Single Base Station with Multiple Remotes

To set-up a base and install up to fifty remotes you need the above computer running and the program "host", loaded. Also needed for computer communications is the above cable connected between the serial port of the Whisper Base and serial port of the computer. Plug power cord into the base then into 110 volts AC.

Click on the "host" icon. Click on the config pull down, remote addr. Input the remote number, then serial number of the remote you want to monitor (which you will find on the battery of the remote, in this case it is labeled on the processor) then click on set. To view this device again after viewing 6 other remotes, input the remote serial number and click on get. The maximum number of remotes that can be monitored at any one time is six of the fifty in the network.

At the remote side of this link, all jumpers J1 to J8, need to be off (See Figure 2a). Place a jumper on the power enable jumper (See Figure 2b) and the led will start flashing. It will flash up to fifty times, when you see the three quick flashes, the base has found the remote. Occasionally, you have to re-start the remote, (possibly up to three times) to communicate to the base.

The computer display shows gas consumption of configurable. Repeat the remote activation sequence for each of the remotes in the system that is to be set-up.