SafetyNet Lite
Getting Started Manual

Document Revision CSSSN 05/06
SafetyNet Lite Version 1.01

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1 Introduction and Overview

SafetyNet Lite is a modern network based Environmental Monitoring System (EMS) for small and medium applications. This product is ideal to monitor your facility services and notify of potential environmental problems, which may impact on the network operations.

Features

- Powerful embedded microprocessor driven, with networking features.
- Up to 2.5 hours of internal battery backed operation. (Optional)
- 19” inch rack mountable and compact size.
- SNMP features to notify error conditions or to poll data.
- SMS messaging via the Internet, or the option of selecting a network independent internal modem to send SMS messages. *
- Remote configuration and monitoring capabilities.
- A dual analogue (temperature & humidity) and three contact sensor (digital) inputs.
- Configurable trigger delays for digital contact sensors.
- An individual relay, capable of being driven via the web interface or by sensors.
- Selectable power sources at ordering. I.e. 240 AC or 48V DC
- Remote IP monitoring feature with physical rebooting of servers/systems when failed or stalled. **
- A strobe, a buzzer and a LED to indicate error conditions.
- Graphical plotting for the ambient analogue sensor.
- Up to 40 entries of alarm and event logs.

* Optional & recommended. Applicable to models ZSN4002M & ZSN4002MD.
- ** With the option of using a SafetyBoot device.

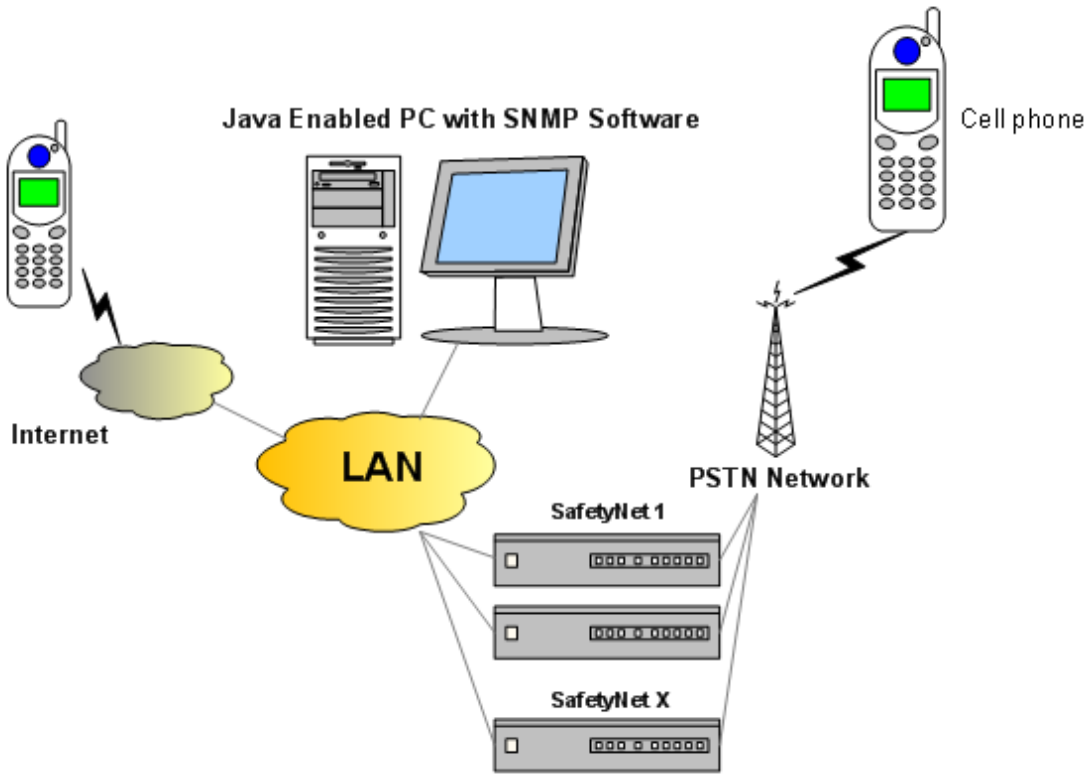
Applications

- Computer server room monitoring.
- Computer rack monitoring and management.
- Alarm consolidation from other non-net enabled systems.
- Monitoring of other controlled environments
- Monitoring of servers or PC’s and rebooting when stalled. ** (See above)
- Water monitoring systems.
- Remote door controlling applications.

1.1 Available SafetyNet Plus Models

Model Number	Description
ZSN4002NB	Powered by 240 Volt A/C
ZSN4002	Powered by 240 Volt A/C, includes battery backup
ZSN4002D	Powered by 48 Volt D.C, includes battery backup
ZSN4002M	Powered by 240 Volt A/C input, includes a PSTN modem & battery backup
ZSN4002MD	Powered by 48 Volt D.C, includes a PSTN modem & battery backup

1.2 Network Overview of SafetyNet Plus



1.3 How to Use This Manual

This ***Getting Started*** manual is intended to enable the user to quickly and easily install and operate SafetyNet Lite. This manual does not contain detailed information on the product functionality hardware capabilities, or its features.

1.4 Additional Product Information

Detailed information about SafetyNet Lite will be found in the ***SafetyNet Lite User Manual***, provided on the accompanying CD-ROM in Adobe PDF format.

2 Requirements

The minimum requirements to run SafetyNet Lite effectively are:

- Access to the local network
- Java enabled web browser. (IE 5.5 or higher recommended)
- UDP port 30705 available for communication with SafetyNet Lite on the network.
- Java™ 2 Runtime Environment, Standard Edition, Version 1.4.2 or higher installed on viewing PC.

  (You may install this from http://java.sun.com/j2se/1.4.2/download.html)
- To send SMS messages SafetyNet Lite needs access to the Internet via its gateway.

Note: *Read install_notes.txt & Java Runtime Environment Notes.txt for details on minimum system requirements to install Java™ Runtime Environment Version 1.4.2*

3 Hardware Setup

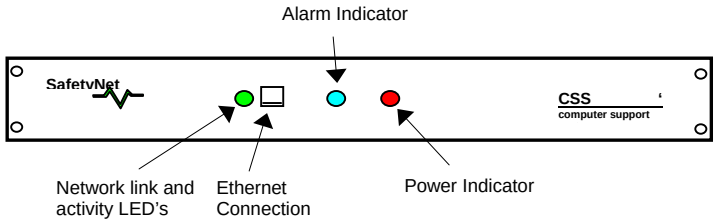
This chapter describes SafetyNet Lite hardware setup in more detail, and explains how to set up and use the accompanying sensors and relays.

3.1 Contents

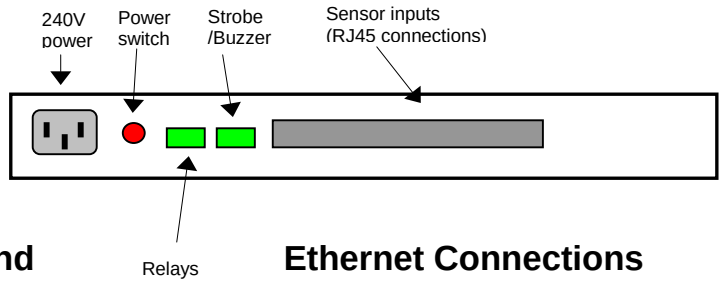
- 1RU SafetyNet Lite unit
- One IEC 240V power cable
- Additional sensors as requested
- SafetyNet Lite CD-ROM

3.2 SafetyNet Lite

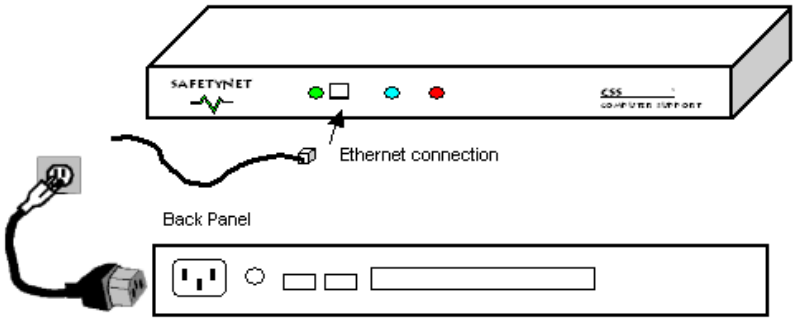
Front Panel



Rear Panel

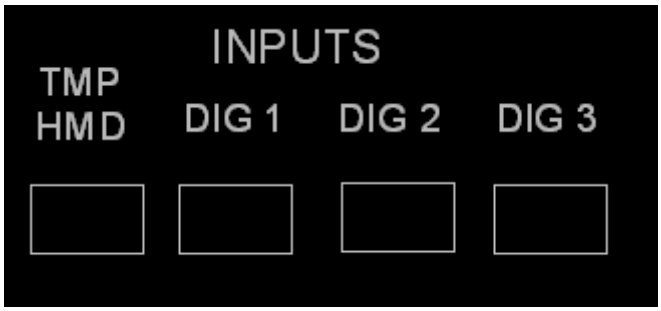


3.3 Power and Ethernet Connections



3.4 Installing Sensors

The sensors are installed on the back panel of SafetyNet Lite and connected using RJ45 connections.



Connect the correct sensors to the corresponding input on the back panel as shown above.

The types of sensors accepted on SafetyNet Lite are:

1 x Dual analogue sensor (TMP & HMD)
3 x contact sensors (DIG1…DIG3)

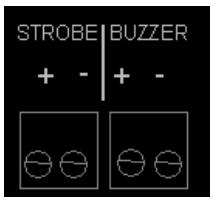
These sensors are to be connected using standard CAT 5 RJ 45 connection cables.

3.5 Installing the Relay

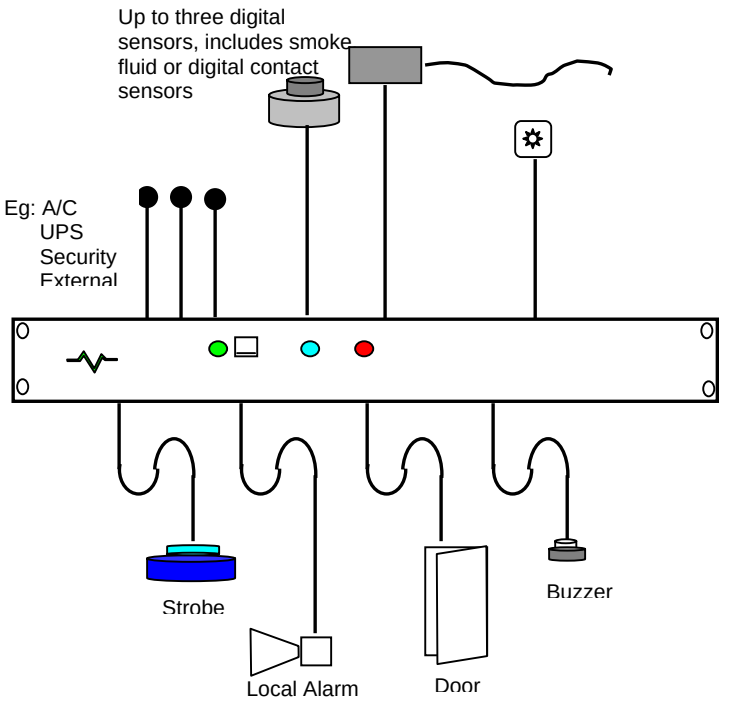
The relay connection is on the back panel of SafetyNet Lite. It is capable of supplying 12V to an external device.

3.6 Installing the Strobe or the Buzzer

The strobe and the buzzer connection are on the back panel of SafetyNet Lite. Only strobes and buzzers supplied by Computer Support Systems will operate on these terminals.
These are driven at 12V D.C.



3.7 Overall Connections Diagram (Sample)

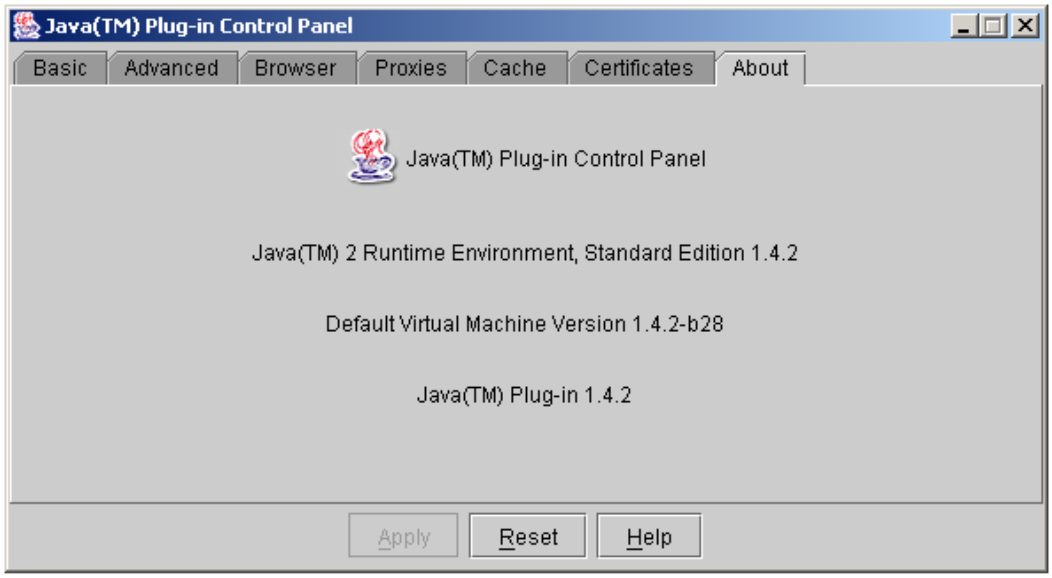


4 Software Installation & Overview

The remote interface of SafetyNet Lite is loaded on a standard Java enabled web browser. The Java™ Runtime Environment 1.4.2 or higher is required to view the web interface.

Read install_notes.txt & Java Runtime Environment Notes.txt for details on minimum system requirements to install Java™ Runtime Environment Version 1.4.2

Once the runtime environment is setup it is able to simply use the default web browser to load the main menu of SafetyNet Lite.



If the installation is successful, the control panel will have an icon for the “Java plug-in”. Double click this to get the above plug-in window. The about tab will show you the current version of the Runtime Environment. Version 1.4.2 or higher are acceptable to view the SafetyNet Lite web interfaces.

4.1 Where Do I Go From Here?

Refer to the ***Quick Install Guide*** and then ***SafetyNet Lite User Manual*** for details of the units’ configuration and features.