SafetyNet Micro
Getting Started Manual

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1 Introduction and Overview

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

Features

- Powerful embedded microprocessor driven, with networking features.
- 1/3 RU 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 via a web browser.
- User friendly and attractive user interface.
- Internal temperature and humidity sensor and two digital contact sensor inputs configurable as a smoke or a fluid sensor.
- Selectable power sources at ordering. I.e. 48V DC or 9 -12V DC plug pack
- Remote IP monitoring feature with physical rebooting of servers/systems when failed or stalled. **
- Blue LED to indicate error conditions.
- Graphical plotting for the analogue sensor.
- Up to 40 entries of alarm and event logs.
- Optional PPP feature. Dial in and out based on alarms. SNMP trap delivery even when there is no Ethernet connectivity or if the network fails. ***

* Optional & recommended. Applicable to models ZSN4001M & ZSN4001MD.
** With the option of using a SafetyBoot device.
*** Applicable to models ZSN4001MP & ZSN4001MDP.

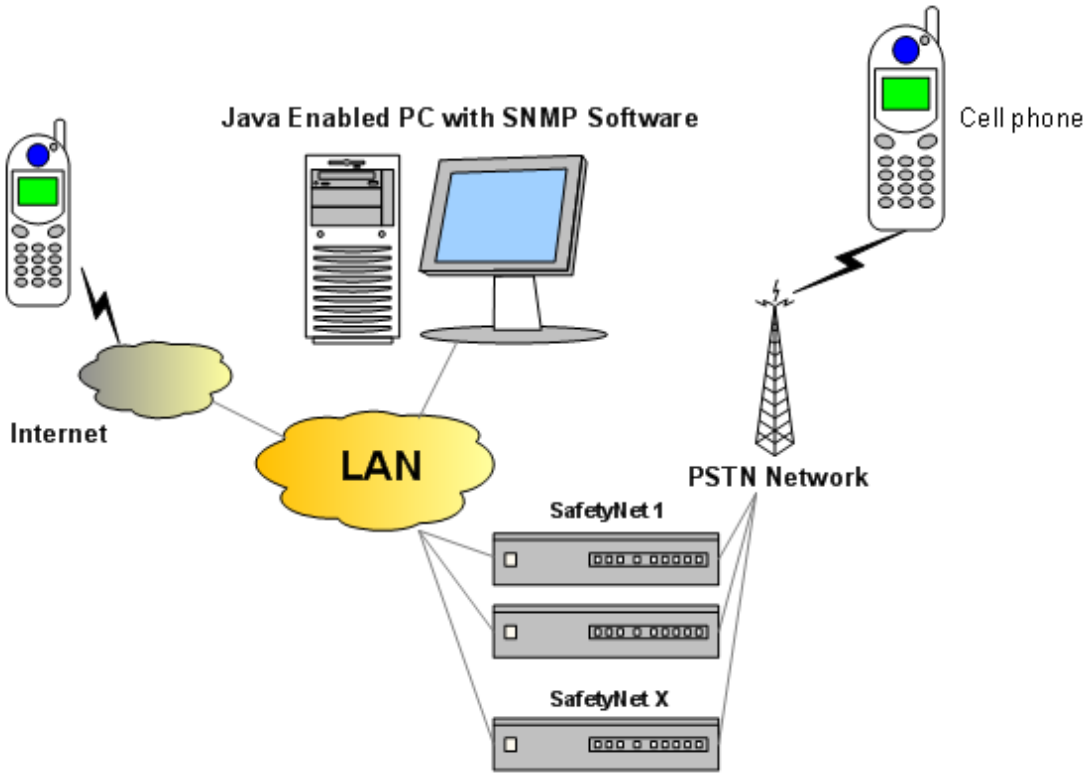
Applications

- 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.

1.1 Available SafetyNet Micro Models

Model Number	Description
ZSN4001	SafetyNet Micro, 9 -12 Volt D.C plug pack input
ZSN4001D	SafetyNet Micro, 48 Volt D.C
ZSN4001M	SafetyNet Micro, 9 -12 Volt D.C plug pack input, PSTN modem
ZSN4001MD	SafetyNet Micro, 48 Volt D.C, PSTN modem
ZSN4001MP	SafetyNet Micro, 9 -12 Volt D.C plug pack input, PPP
ZSN4001MDP	SafetyNet Micro, 48 Volt D.C, PPP

1.2 Network Overview of SafetyNet Micro



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 Micro. This manual does not contain detailed information on product functionality hardware capabilities, or its features.

1.4 Additional Product Information

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

2 Requirements

The minimum requirements to run SafetyNet Micro 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 Micro 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 via the network, SafetyNet Micro needs access to the Internet via its gateway. If the modem option is selected on SafetyNet to send SMS messages, a password is required supplied by a telecommunications company. (No Internet is required.) Eg: Telstra in Australia provides a product named as “SMS Access Manager”. More information can be found in the user manual.
- PSTN line to operate the optional PPP feature. SNMP Traps delivered when a NT RAS (Remote Access Server) is setup on the network.

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 on your PC.*

3 Hardware Setup

This chapter describes SafetyNet Micro hardware setup in more detail, and explains how to set up and use the accompanying sensors and the telephone cable to the modem *.

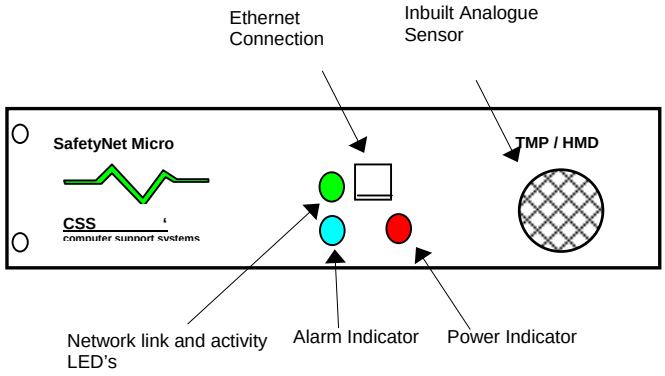
* Optional. Applicable to models ZSN4001M, ZSN4001MD, ZSN4001MP & ZSN4001MDP.

3.1 Contents

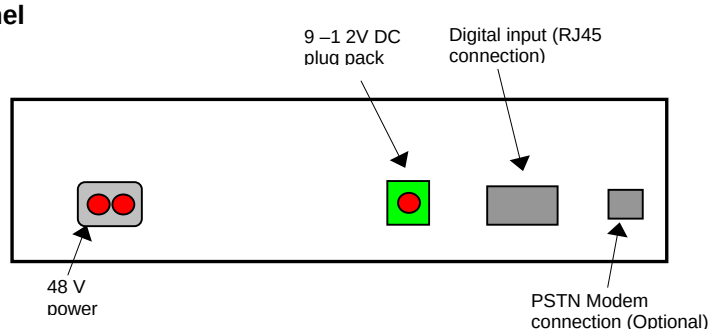
- 1/3 RU SafetyNet Micro unit with screws.
- One 9 -12V DC plug pack for models ZSN4001, ZSN4001M and ZSN4001MP
- Additional sensors as requested, ie: Smoke/Fluid or dual digital
- SafetyNet Micro CD-ROM

3.2 SafetyNet Micro

Front Panel



Rear Panel



3.3 Power and Ethernet Connections

Connect the network cable to the network connection shown on the front panel.

Connect the 9 – 12 V DC plug pack or the 48V DC supply to the rear of the unit.

3.4 Installing Sensors

The digital sensor is installed on the back panel of SafetyNet Micro and connected using a RJ45 connection.

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

The type of sensor accepted on SafetyNet Micro is

1 x fluid sensor or
1 x smoke sensor or
1 x dual digital sensor

This sensor is to be connected using a standard CAT 5 RJ 45 connection cable.

3.5 Installing PSTN line for the modem

This is applicable only to the model with the modem. The PSTN is connected to the RJ11 connector, which has a label 'Modem'.

The telephone line could be a direct line or an analogue PABX line. When configuring the modem, the software interface allows specifying the type of line connected.

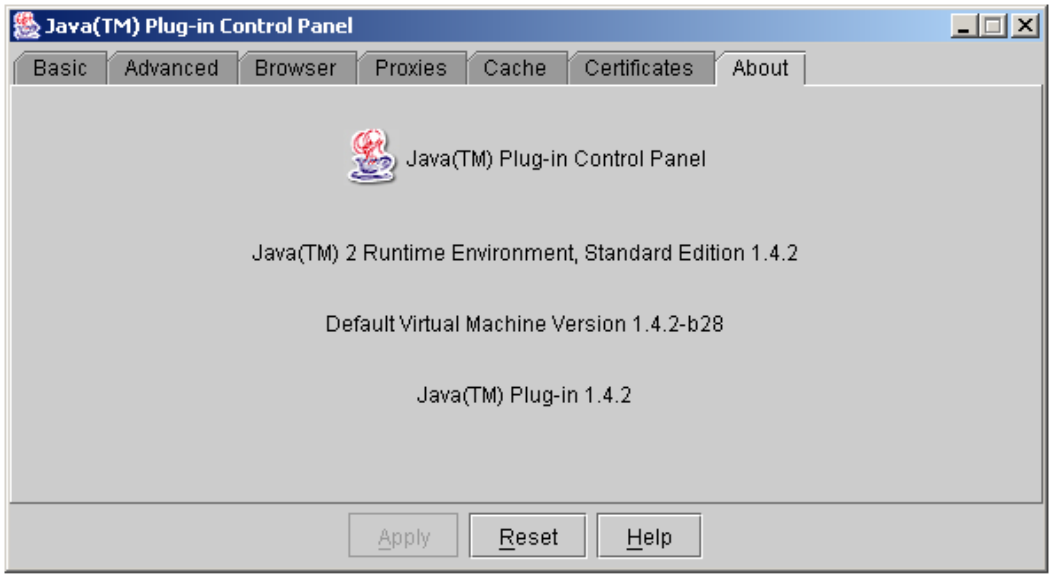
Connecting a digital PABX line may damage the modem, and may cause the dial tones to be not recognised. Ensure that the line is an analogue type, if connected to a PABX system.

4 Software Installation & Overview

The remote interface of SafetyNet Micro 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 web interface of SafetyNet Micro.



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 Micro web interfaces.

4.1 Where Do I Go From Here?

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