NetProbe Lite

Web Based 8 Channel Sensor Collector

User Manual

Version 1.2

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Chapter 1: Introduction

Section 1. Features

NetProbe Lite is designed to collect output from equipment or devices. This output can either be dry contact alarm signal or analog signals for remote monitoring and management systems. These are all important data within a complex enterprise network.

Some of the main features of this device are;

Firmware:

- Built-in Web Server
- Configuration via telnet, Web or Netility (freeware)
- PPPoE and DDNS protocol for xDSL broadband connection
- Allow Up to 8 User Accounts and Passwords
- Support Any Java-Enabled Web Browser
- Supports PDA, GPRS and WAP for GSM phone.
- Network Protocol: HTTP server, TCP/IP, UDP, SMTP, PPPoE, DDNS, DNS Client, SNTP, BOOTP, DHCP, Telnet, FTP, SNMP TRAP, PDA, WAP/GSM

Hardware:

- Built-in temperature and humidity sensor.
- Temperature detection range: -40°C to 100°C
- Humidity detection range: RH 0% to 100%
- Support 8 channels for Voltage input or 4 channels for dry contact input.
- 0V to 4.096V detection range in 8-bit / 10-bit / 12-bit resolution.
- Individual voltage mode. Voltage detection of Sig-1 to Sig-8
- Voltage difference mode: Voltage difference detection of (Sig-1 – Sig-2), (Sig-3 – Sig-4), (Sig-5 – Sig-6), (Sig-7 – Sig-8).
- LCD display shows the IP address, Subnet Mask, Gateway and Status or Voltage or individual channel sequentially.
- 32-Bit 50MHz RISC ARM7 CPU
- System clock: 25MHz or 50MHz
- Flash Memory: 512KB / 1MB / 2MB / 4MB / 8MB
- Dynamic Memory: 2MB / 8MB / 16MB
- Power supply: 4.8V to 7.0V DC, 250mA maximum.
- Operating Voltage: 3.3 volts
- Operating Temperature: 0°C ~ 50°C
- Operating Humidity: 5% ~ 90%
- Dimensions: 48mm x 63mm x 21m
- Weight: 75g

Section 2. Networking with NetProbe Lite

With NetProbe Lite, the data in either analog voltage inputs (up to 8 devices) or dry contact digital inputs (up to 4 devices) can be collected and broadcast over the Internet or LAN. These data can then be translated by a MIB and managed using SNMP NMS over HP OpenView. Alternatively, the user can use a web browser to view and monitor these devices from the NetProbe Lite web page.

Fig.1 NetProbe Lite Network diagram

Section 3. Package Contents

A standard package should contain these items;

	One NetProbe Lite module
	One Utility CD which contains; 1. Netility: to configure IP address and update the firmware. 2. Time Server: Time adjustment utility. 3. Adobe Acrobat 5.0 Reader. User Manual
	One Power Adaptor (European / USA)

Section 4. NetProbe Lite Description

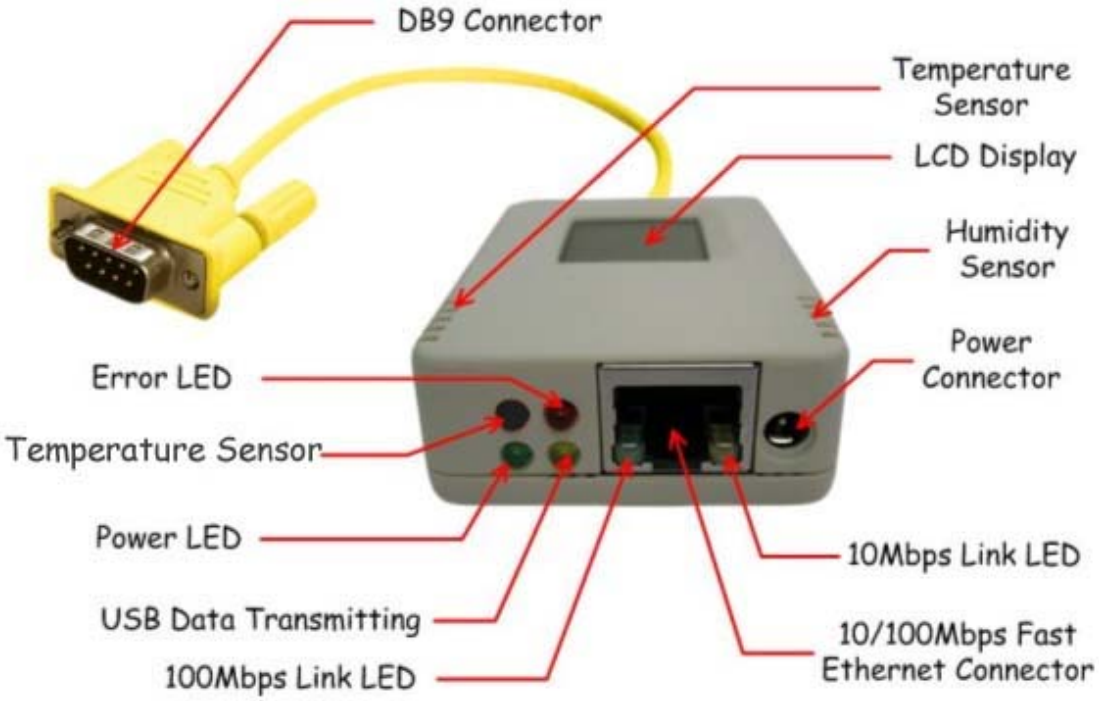


Fig.2 NetProbe Lite Front View

Section 5. NetProbe Lite DB-9 Pin Assignment

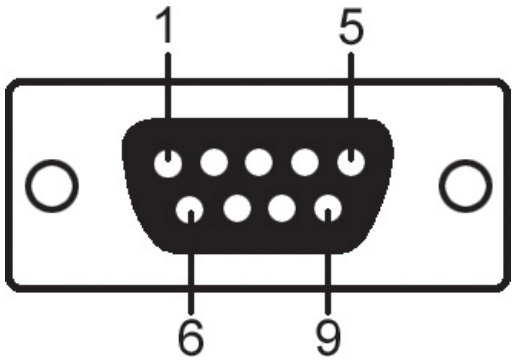


Fig.3 DB-9 Male

NetProbe Lite DB-9 PIN Assignment	
Male DB-9 Pin No.	**RS-232**
1	Sig-1
2	Sig-3
3	Sig-5
4	Sig-7
5	GND

6	Sig-2
7	Sig-4
8	Sig-6
9	Sig-8

Fig.4 NetProbe Lite DB-9 PIN assignment

NOTE: Due to the variety of available device, the user will have to modify the connector to suite their purpose.

Section 6. NetProbe Lite Indicators

NetProbe Lite LED Status Indicators		
Color	**Signal Definition**	**Condition / Description**
Green	Power state	On: Normal power
Red	Error Condition	On: Error condition occurred
Yellow	Data activity	Flash when there is data detection on DB-9 signals. When there is a user logon, the Yellow LED will be ON for 30 seconds.

Fig.5 NetProbe Lite Status LED Indicator

NetProbe Lite LAN Port LED Light indicators	
Color	**Condition / Description**
Green	On: Internet correspond speed is 100M Flash: Data transmitting / receiving
Yellow	On: Internet correspond speed is 10M Flash: Data transmitting / receiving

Fig.6 NetProbe Lite LAN LED Indicator

Chapter 2: Installation Procedure

Before you start using NetProbe Lite, you will need to set-up both the hardware and software. The following is a flow chart on the installation procedure:

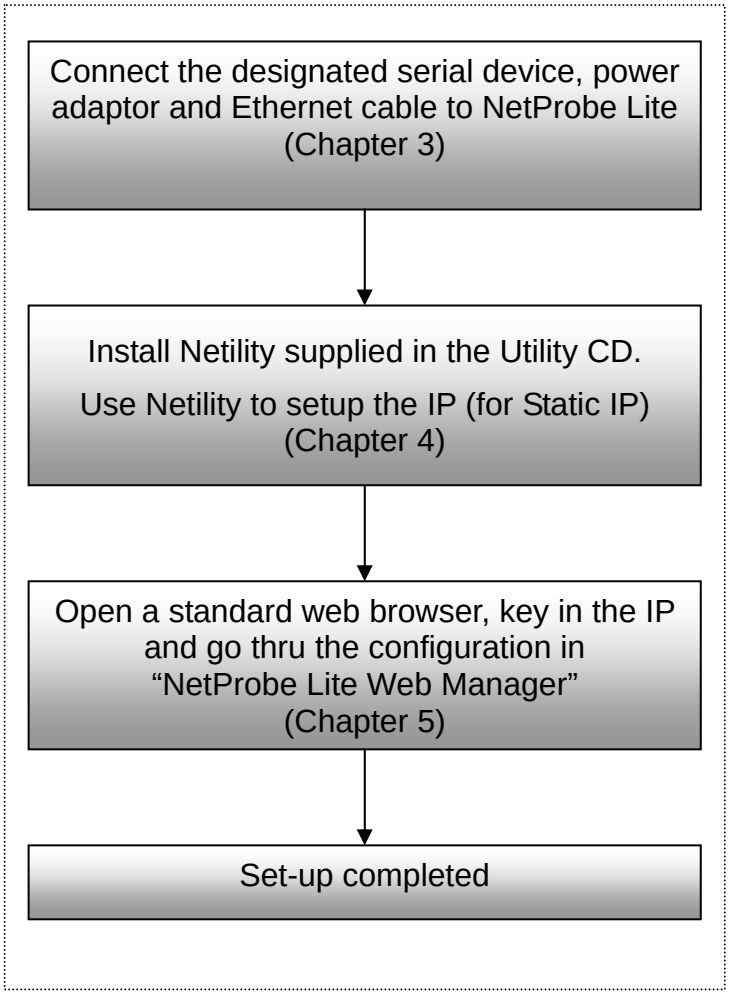


Fig.7 NetProbe Lite UPS installation flowchart

Chapter 3: NetProbe Lite Installation

The following details the installation procedure for NetProbe Lite.

Section 1. Installation Procedure

Step 1:

Connect the individual DB-9 pin to the device to be monitored.

Step 2:

Connect one end of the Ethernet cable to a hub / router.

Step 3:

Connect the other end of the Ethernet cable to NetProbe Lite Ethernet port.

Step 4:

Connect the DC adapter power output into NetProbe Lite socket, and plug the DC adaptor into the wall socket

Step 5:

The LCD will display the IP, Subnet Mask, Gateway, the current temperature and humidity.

Enter the shown IP address into a standard WEB browser to login into NetProbe Lite web manager.

WARNING:

Please make sure the input Voltage and Frequency of the DC power adapter (DC 5.3V) is correct before plugging into the power outlet.

Chapter 4: Using Netility to Setup IP & Update Firmware

Section 1. Installing Netility

1. Insert the Utility CD into the CD-ROM drive and execute Netility.exe

2. After installation is completed, 'Netility' group will appear in Windows 'Start' → 'Program Group'.

Fig.8 Netility Group

3. Click "Netility" to start the program.

Section 2. Using Netility

The Netility main menu is shown below. The selection menu is located on the left. The device, hardware, firmware and IP address connected to a LAN are displayed on the right.

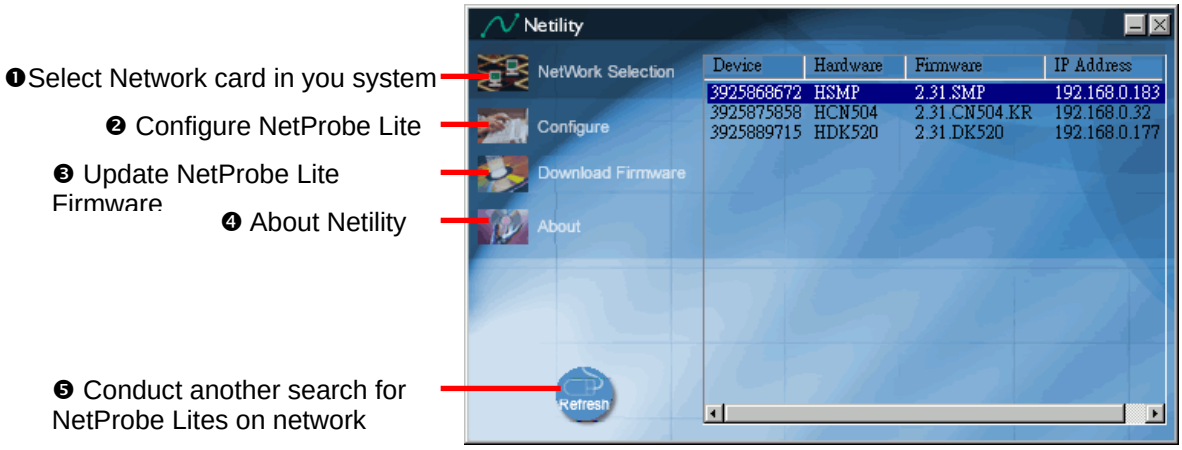


Fig.9 Netility Main Menu

2.1 Network Selection

Once Netility starts-up, it will automatically search for the computer's Network card (If not, click on "Network Selection" on the main menu to start the search). A pop-up window will show the available Network Adapter.

Next, select the Network Adapter, which is connected to the LAN, and click 'OK' to return to the main menu. NetProbe Lite will now appear in the main menu display area.

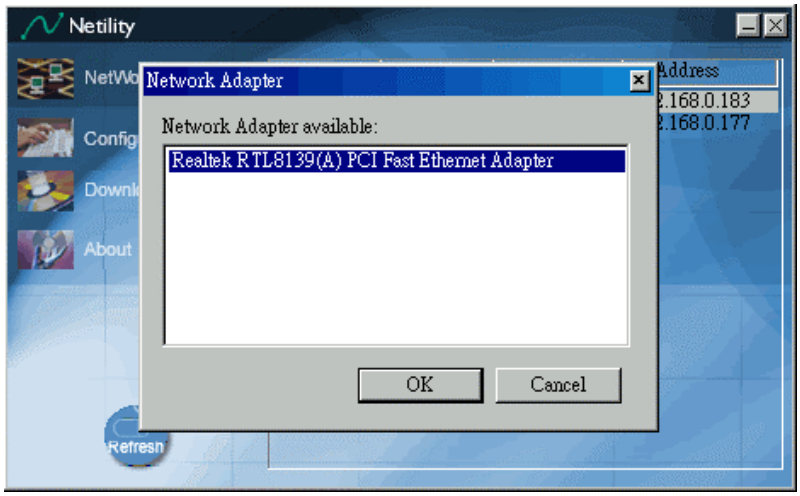


Fig.10 Netility: Network Selection

2.2 Configure

Select NetProbe Lite on the right display screen, and then click “Configure”. This will bring up the IP Address Configuration window. Here, the user can set;

- IP Address
- Advanced (for port setting configuration)

2.2.1 IP Address

This section sets an IP Address for NetProbe Lite. Enter your IP Address if you have a Static IP otherwise choose Obtain an IP address by DHCP.

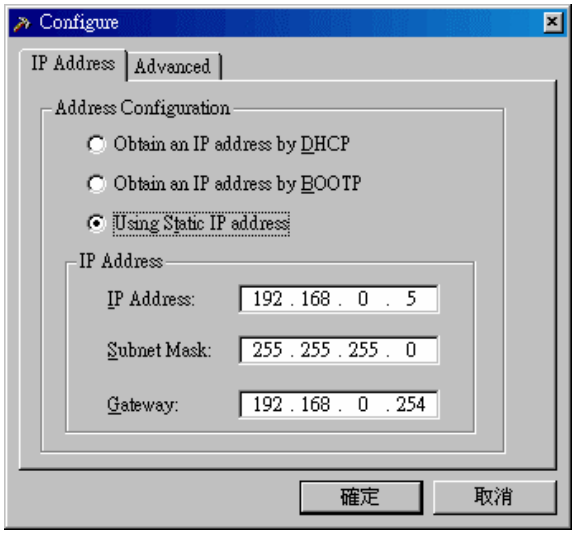


Fig.11 Netility: Set an IP Address for NetProbe Lite

Once the IP address is set, you will be able to connect to the NetProbe Lite webpage from a standard browser.

Obtain an IP address by DHCP or BOOTTP – the IP address, Subnet Mask and Gateway is acquired automatically by the system.

2.2.2 Advanced

In order to increase security of NetProbe Lite, Netility offers two additional security features:

i. Netility Password

Use this to set an access password for Netility.

> **WARNING:**
> Do not lose this password. If the password is lost, Netility will not be able to perform future firmware upgrades.

ii. Management Protocol (This function is disabled for NetProbe Lite)

2.3 Upgrade Firmware

Netility offers a convenient firmware upgrade. To upgrade your firmware follow the following procedure.

Download the latest firmware;

1. Open internet explorer and browse to; http://www.megatec.com.tw/CustomerService/Download/csdownload.htm Make sure that you choose “NetProbe Lite” (Downloading the wrong firmware may permanently damage NetProbe Lite).
2. Check if the latest firmware has been released.
3. Click to download and save the file to your local hard drive.

Upgrade NetProbe Lite firmware;

1. Open Netility,
2. Click “Download Firmware” from the Netility main menu,
3. Click , and browse to the location where you save the firmware.
4. Select the new firmware file (*.bin) and,
5. Click “Start”.

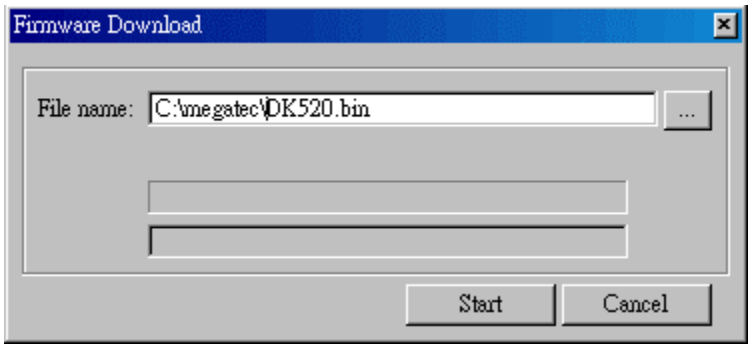


Fig.12 Netility: Update NetProbe Lite firmware

NetProbe Lite red and yellow LED will flash alternately to indicate that firmware upgrading is in progress. Once completed, NetProbe Lite will reboot.

Note: If the downloading / upgrade process is interrupted or the data is corrupted, NetProbe Lite will keep its default firmware to avoid complete data loss. If this happens, repeat the above firmware upgrade procedure.

2.4 About

This section displays the current Netility version.

Fig.13 Netility version examined

2.5 Refresh

Normally, Netility will automatically search for any NetProbe Lite connected to the LAN. However, the user can do a manual search by click the “Refresh” icon.

Fig.14 Netility: Manually search for NetProbe Lite

Chapter 5: NetProbe Lite Web Manager

Section 1. Introduction

After you have setup the hardware and set an IP address for NetProbe Lite, you will then be able to go to NetProbe Lite web site to monitor, manage and control the serial devices. All you have to do is enter the new IP address into any standard web browser.

To do this;

1. Start the Web Brower (Netscape or Internet Explore)

2. Enter NetProbe Lite IP Address that was set earlier using Netility (e.g. 211.21.67.51) and press [ENTER]

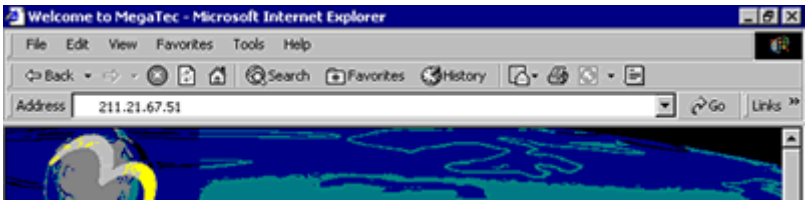


Fig.15 Enter NetProbe Lite IP address

3. A login screen will appear, press [ENTER]. By default the username and password is left blank.

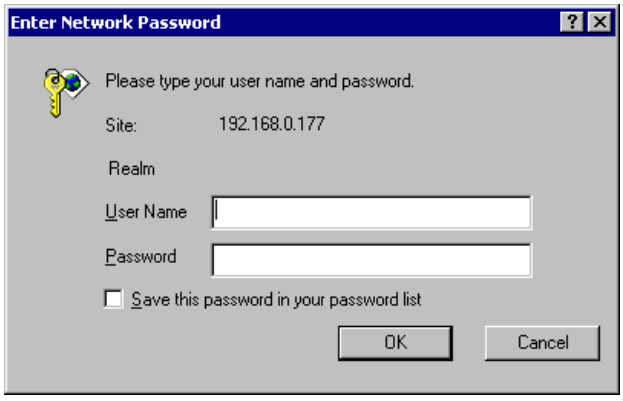


Fig.16 NetProbe Lite Login screen

Section 2. NetProbe Lite Web Manager Interface

NetProbe Lite webpage main menu is divided into two sections. The selections menu on the left and display menu on the right. The selection menu consists of the following options:

2.1 Information
2.2 Configuration
2.3 Log Information
2.4 Help

2.1 Information

Click “Information” to open up the following sub-menu;

2.1.1 System Status

2.1.2 Current Status

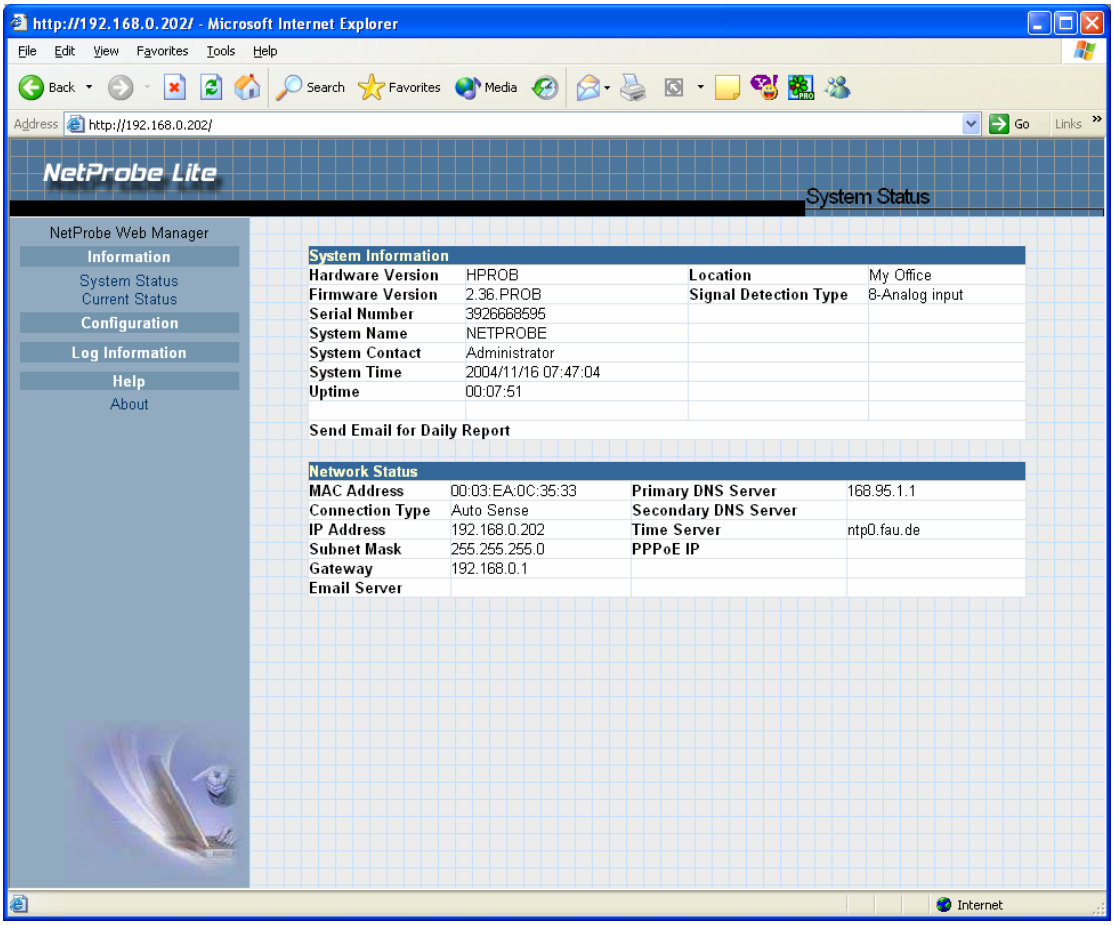


Fig.17 NetProbe Lite Information Menu

2.1.1 System Status

Click on “System Status” to display the System Information and Network Status. The information and values here are either provided by NetProbe Lite or were set by the users in the “Configuration” section earlier on.

i. System Information

This section shows NetProbe Lite System Information such as the Hardware and Firmware Version, the serial number, current / local System Time, the system name, contact, location, uptime and Signal Detection Type. These values are either provided by NetProbe Lite or set by user earlier.

ii. Network Status

This section shows NetProbe Lite Network settings. The MAC address is unique to every NetProbe Lite. All the other values are set by the user in the Configuration page.

2.1.2 Current Status

The *Current Status* displays information collected by NetProbe Lite. Such as Temperature, Humidity and data from each connected device.

By default the *Refresh Status* is set to 10 seconds. Choose between; 2 seconds, 5 seconds, 10 seconds, 30 seconds and 1 minute.

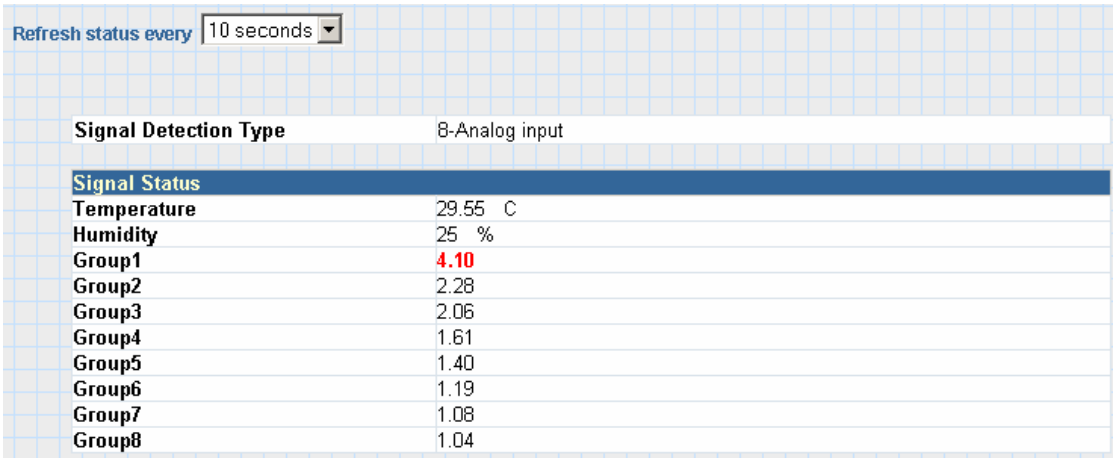


Fig.18 NetProbe Lite Current Status Menu

2.2 Configuration

Please ensure that each of the following option is set correctly. Otherwise, NetProbe Lite may not work properly.

2.2.1 NetProbe Properties

2.2.2 Network

2.2.3 SNMP

2.2.4 Email

2.2.5 WEB

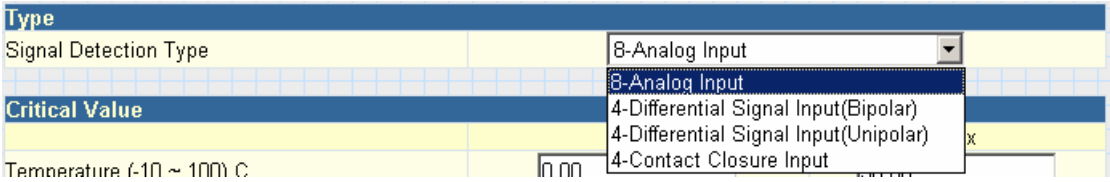
2.2.6 System Time

2.2.1 NetProbe Properties

This section determines the types of signal to be detected and their detection parameters.

i. Type

There are four (4) different Signal Detection Types available.

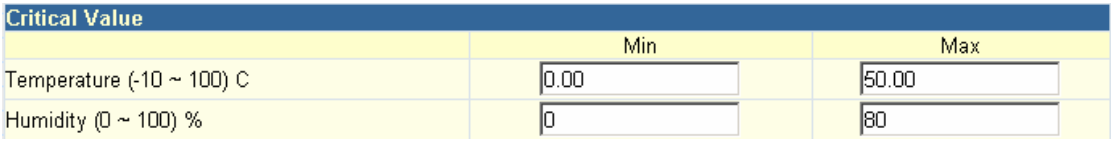


Signal Detection Type	Description
8-Analog input	For detection 8 individual analog signals. Signal detection range from 0 v to +4.096 v
4-Differential Signal Input	For detection 4 differential analog signals. Signal

(Bipolar)	detection range from -2.048 v to +2.048 v
4-Differential Signal Input (Unipolar)	For detection 4 differential analog signals. Signal detection range from 0 v to +4.096 v
4-Contact Closure Input	For detection 4 contact closure signals. Signal detection of either opened or closed state.

ii. Critical Value

Enter in the minimum and maximum Temperature / Humidity detection range.



Temperature

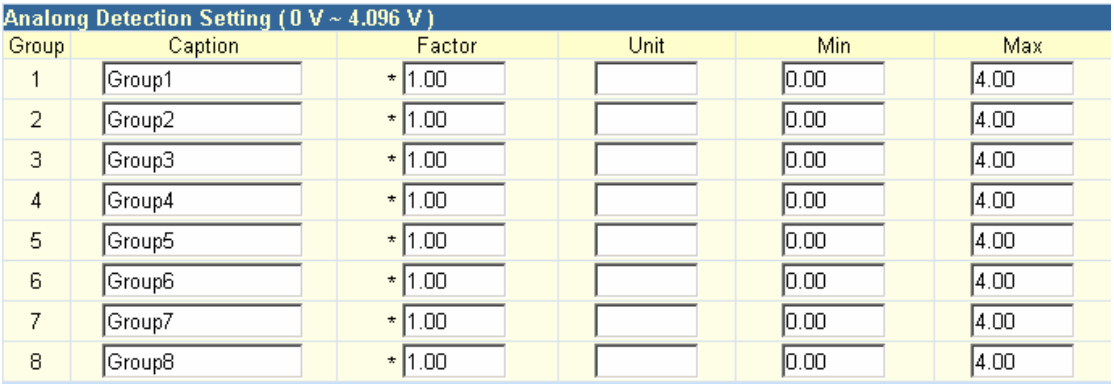
Set the temperature range between -10 C to 100 C.

Humidity

Set the humidity range between 0 to 100%.

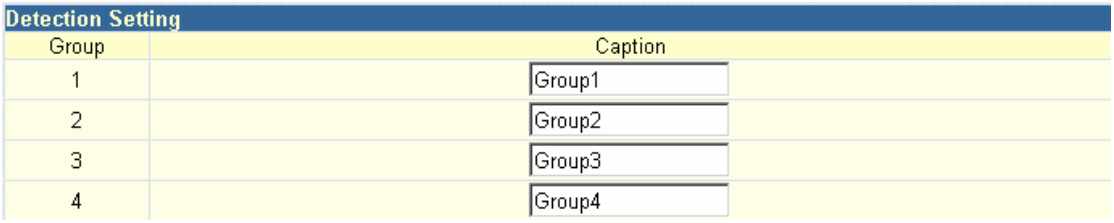
If the temperature drops below the minimum set value or over the maximum value, a TRAP will be sent.

iii. Analog / Bipolar / Unipolar Detection Setting



Caption	**Description**
Group	Group number, corresponding to “Sig” grouping.
Caption	Enter a suitable name for this group signal.
Factor	The factor needs to multiply on the signal voltage detected.
Unit	The Unit of the signal.
Min	Set the minimum value (0V)
Max	Set the maximum value (4.096V)

iv. Contact Closure Detection Setting



Enter a suitable name for the group signal (Maximum of 31 characters)

v. Data Log

Record Data Every

Use this option to determine the record interval. Choose between; 1 minute, 10 minutes, 30 minutes, 1 hour or None.

2.2.2 Network

This option determines NetProbe Lite Network settings.

i. IP Address

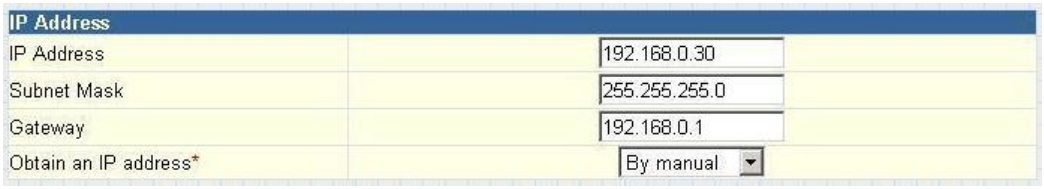


Fig.19 NetProbe Lite IP Address Settings

IP Address

If you want to fix the IP address, enter your chosen IP address here. Otherwise go to “Obtain an IP address” and choose “via DHCP”

Subnet Mask

This item sets NetProbe Lite Subnet Mask. The value is normally 255.255.255.0

Gateway

This item is to set NetProbe Lite Gateway.

Obtain an IP address

The IP address can be set;

a. By manually
b. Using DHCP, or
c. Using Bootp

NetProbe Lite will reboot after the above settings have been changed.

ii. DNS Server IP

Fig.20 NetProbe Lite DNS Server IP

Primary DNS Server IP

This item sets NetProbe Lite primary DNS Server IP address. Enter a value here if you have a DNS Server IP.

Secondary DNS Server IP

This item sets NetProbe Lite secondary DNS Server IP address. NetProbe Lite will use the secondary DNS Server IP address if the Primary DNS Server IP address is not working.

iii. Ethernet

Fig.21 NetProbe Lite Ethernet Settings

Connection Type

This item sets the communication speed between NetProbe Lite and the Network. Choose “Auto Sense” to let NetProbe Lite automatically decide on the appropriate connection speed. Alternatively you can manually choose either;

- 10Mbps Half-Duplex
- 10Mbps Full-Duplex
- 100Mbps Half-Duplex
- 100Mbps Full-Duplex

NetProbe Lite will reboot if this setting is changed.

iv. Dynamic DNS

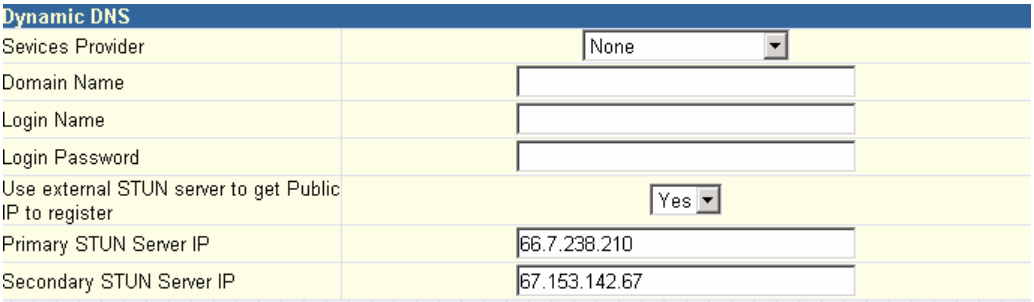


Fig.22 NetProbe Lite Dynamic DNS Settings

Service Provider

For users with a Dynamic IP, NetProbe Lite can be configured to point the current IP (as provided by your ISP upon each successful dial-up to the internet) to a dynamic DNS provider. This will enable you to locate NetProbe Lite every time the IP changes due to an ADSL connection redial.

To enable this function, you will first have to register with either one of these three service providers;

- None (Choose this only if you have a Static IP)
- 3322.org
- dhs.org
- DynDNS(Dynamic)
- DynDNS(Custom)
- Myddns.com
- Zive.org

Domain Name

Enter the Domain Name you have created from one of the three websites.

Login Name

Enter your login name for the above domain name. You should have this when you register with the above DDNS provider.

Login Password

Enter your password. You should have this when you register with the above DDNS provider.

Use external STUN server to get Public IP to register

Enable/disable using the external IP for DDNS server registration. If this function is enabled, the NET101 will get the external IP by the help of STUN server, and then use this IP to register the IP of the DDNS server.

Primary STUN Server IP

Input the primary STUN server IP. The NET101 will use this server's help to get the external IP address. The default IP is 66.7.238.210.

Secondary STUN Server IP

Input the secondary STUN server IP. The NET101 will use this server's help to get the external IP address when the primary STUN server has no respond. The default IP is 67.153.142.67.

v. PPPoE

Use this option to allow NetProbe Lite to connect to the internet using your xDSL modem. Once set-up, NetProbe Lite will be able connect to the Internet directly without going thru a PC.

Fig.23 NetProbe Lite PPPoE setting

When Connection should be made

The user has a choice of;

Disabled	:	Default setting.
Connect always	:	NetProbe Lite will automatically dial up the ISP.

Login Name

Enter your login name as provided by your ISP.

Login Password

Enter your password as provided by your ISP.

2.2.3 SNMP

This page is to set the SNMP settings so it can be used by a NMS (Network Management System).

i. MIB System

System Name

This is to give NetProbe Lite a name.

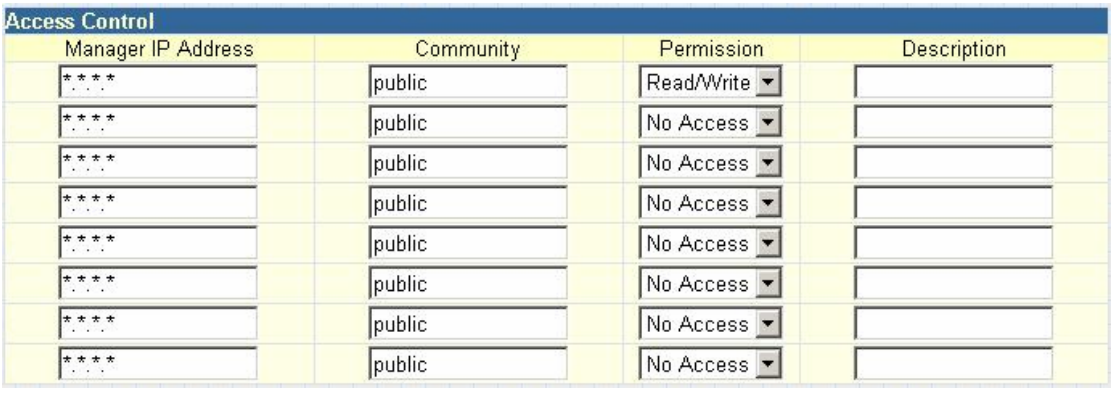
System Contact

This is to give the administrator a name.

System Location

This is to set NetProbe Lite location.

ii. Access Control



Manager IP Address

This set the IP address from where the administrator can manage NetProbe Lite. It is valid for up to 8 IP addresses. Use *.*.*.* to manage NetProbe Lite from any IP addresses.

Community

This is to set a Community name for NMS. The community name has to be the same as that set in NMS.

Permission

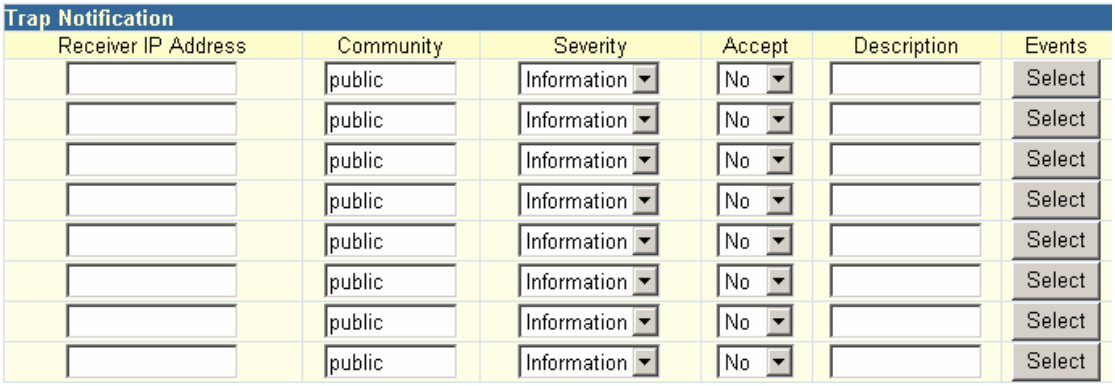
This is to set the administrator's authority. Options are Read, Read/Write, and No Access.

Description

This is for an administrator to make notes

iii. Trap Notification

The user can set up to eight (8) Trap recipient's address.



Receiver IP Address

Enter the email address of the person to receive Trap Notification.

Community

This is to set a Community name for NMS. The community name has to be the same as that set in NMS.

Severity

This determines the severity of the Trap. It is divided into three main types:

Type	Description
Information	To receive all traps
Warning	To receive only "warning" and "Severe" traps
Severe	To receive only severe trap

Please refer to your NMS for Trap levels and settings.

Accept

Use this section to set weather the recipient should receive a TRAP or not. Useful for temporarily disable Trap reception for the user.

Description

This is for the administrator to make short notes (Max of 47 characters).

Events

This section allows you to select events you will be notified of from a drop-down list. Click the "select" button, a menu will open. Click either "Yes" or "No".

Note: The Trap notification for the "Input Events" will depend on the *Signal Detection Type* selected under *NetProbe Properties*.

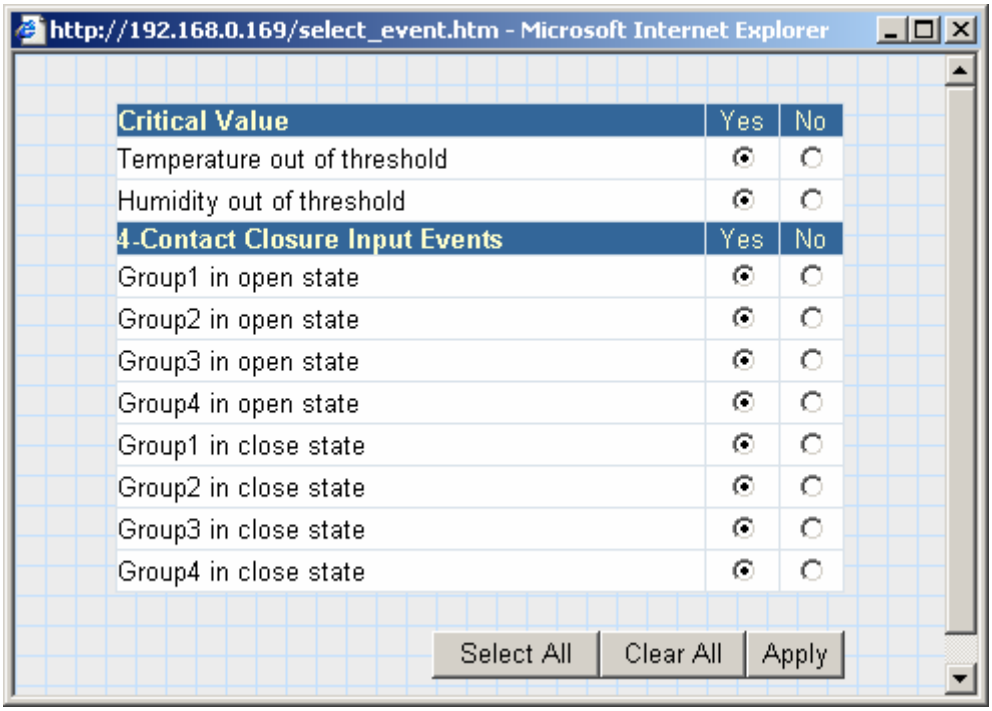


Fig.24 Trap Selection in a 4-Contact Closure Signal Detection setting.

Click "Apply" to confirm otherwise the changes will not be saved. NetProbe Lite will confirm changes with a "Write Complete" message. Click "OK" to return to the menu.

2.2.4 Email

This option sets the Email details for NetProbe Lite.

i. E-mail Settings

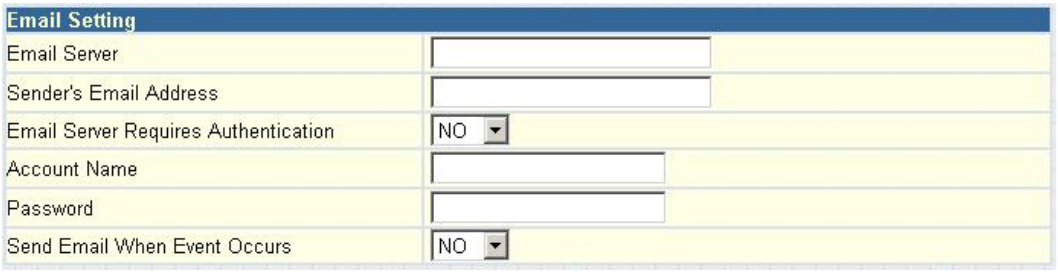


Fig.25 NetProbe Lite E-mail Setting

E-mail Server

Enter the email server.

Sender's Email Address

This item determines NetProbe Lite's Email address.

Email Server Requires Authentication

If set to "YES", the user will have to provide the account/password for accessing the Email server. Otherwise, enter "NO".

Account Name

Enter the account (login) name for the email server (Maximum 32 characters).

Password

Enter the password for the above account name.

Send Email When Event Occurs

If set to "YES", NetProbe Lite will send an email to the Recipient's Email Address when an event occurs. Enter up to 8 recipient's email address in the next section.

ii. Recipient's Email Address (for Event Log)

The user can determine which eight (8) email addresses will receive email notification when an event occurs.

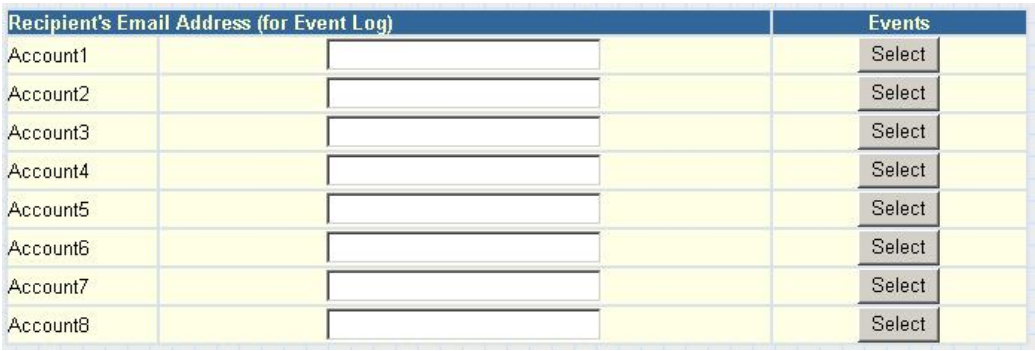


Fig.26 NetProbe Lite Event Log recipient's email address

Events

This section determines the type of event an email is sent by NetProbe Lite. The lists of available events are similar to the *Trap Notification* event selection.

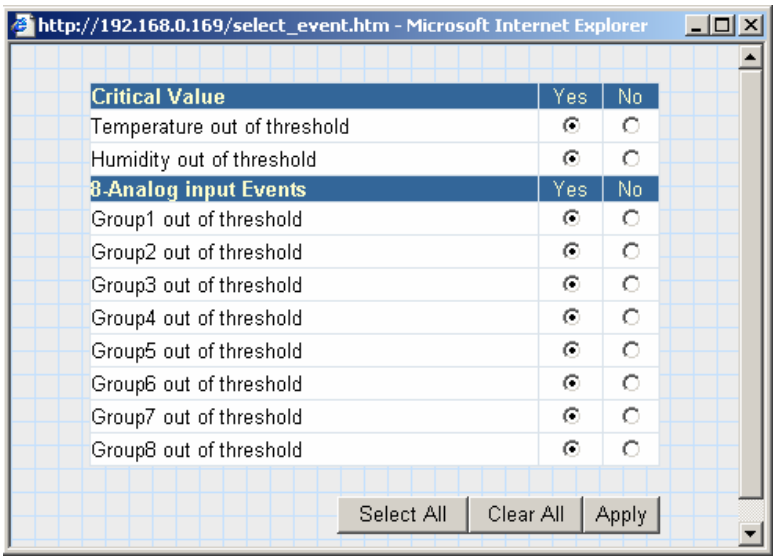


Fig.27 NetProbe Lite Event Selection List

NetProbe Lite will send the following email notification depending on which event has been selected.

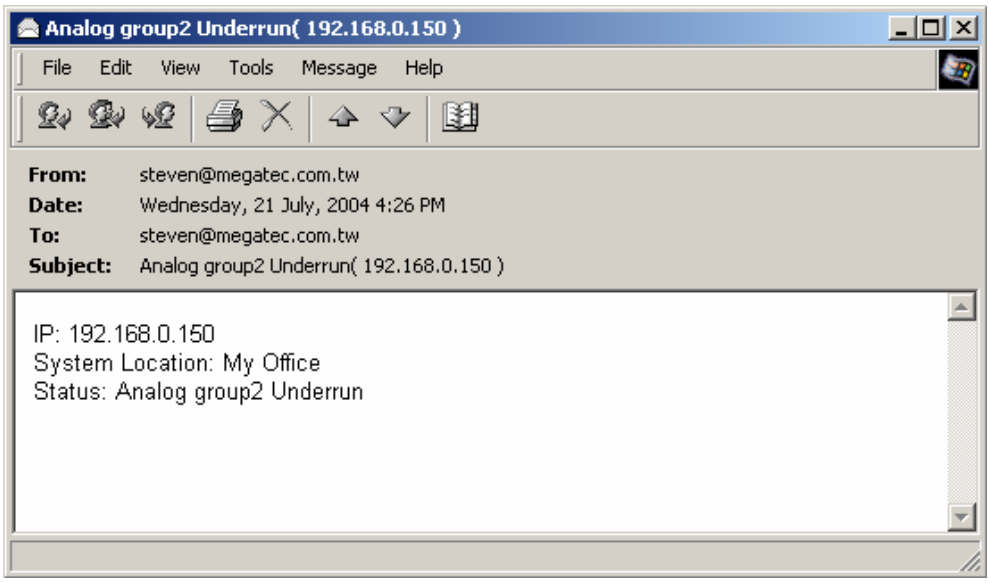


Fig.28 NetProbe Lite A Trap Event Notification

iii. Recipient's Email Address (for Daily Report)

The user can determine which four (4) email addresses will receive a Daily Report from NetProbe Lite.

Recipient's Email Address (for Daily Report)	
Account1	
Account2	
Account3	
Account4	
Send Email for Daily Report (hh:mm:ss)	NO at
Send email when Data Log overflow. (500 records)	No

Fig.29 NetProbe Lite Daily Report recipient's email address

Account

Enter the email address of the daily report recipient.

Send Email for Daily Report (hh:mm:ss)

To enable sending of a daily report, click "Yes" and enter the report time in 24hr format. The Daily report will include information from *Event Log* and *Data Log*.

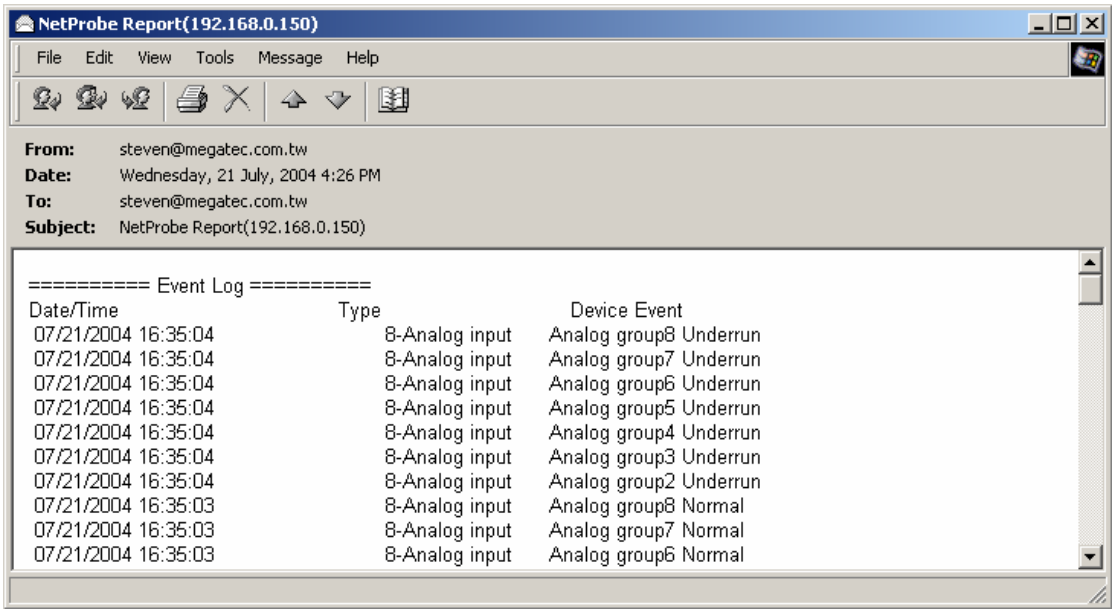


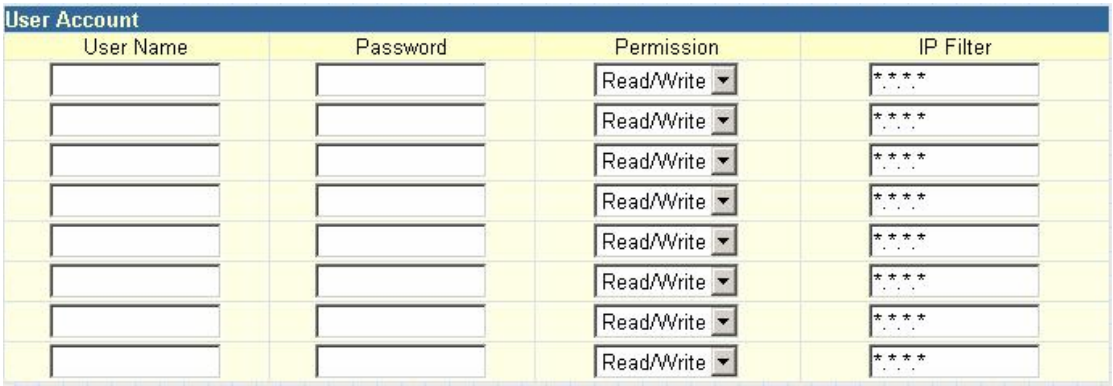
Fig.30 NetProbe Lite Daily Report email

Send Email When Data Log overflow (500 records)

This will send an email to the recipient notify that the recorded data has exceeded 500 items.

2.2.5 WEB

This section allows you to set up to eight (8) User account for NetProbe Lite. Once set, a valid username and password must be entered in order to access NetProbe Lite.



i. User Account

User Name

Enter a user name here (maximum length is 32 characters).

Password

Set a password for the account (maximum length is 16 characters, case sensitive).

Permission

Determine the permission to Read/Write (Administrator) or Read only.

WARNING: You MUST set at least one User Account permission to Read/Write (Administrator) BEFORE setting a Read Only. Failure to do so will result in you being locked out of NetProbe Lite Web Manager!

IP Filter

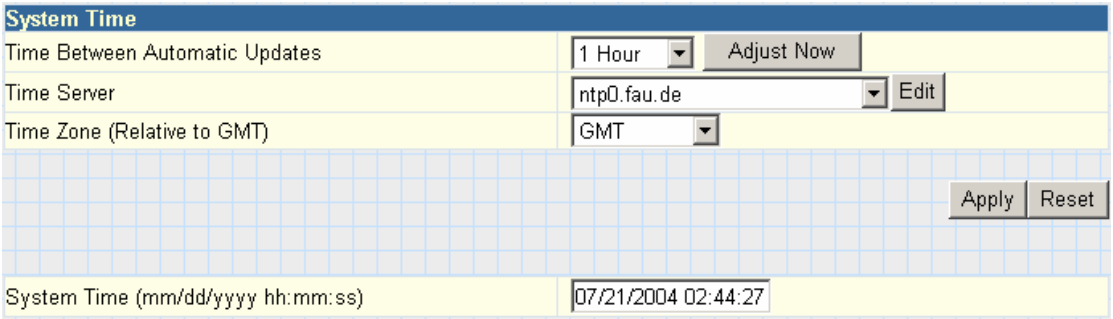
To increase security, the Administrator can specify the IP address of the user logging in. Leave "*.*.*.*" to allow the user to login from any place.

Click "Apply" to accept changes. NetProbe Lite will confirm with a "Write Complete" message. Click "Reset" to undo current changes.

2.2.6 System Time

This section is to set and synchronize NetProbe Lite System Time with the chosen *Time Server*.

i. System Time

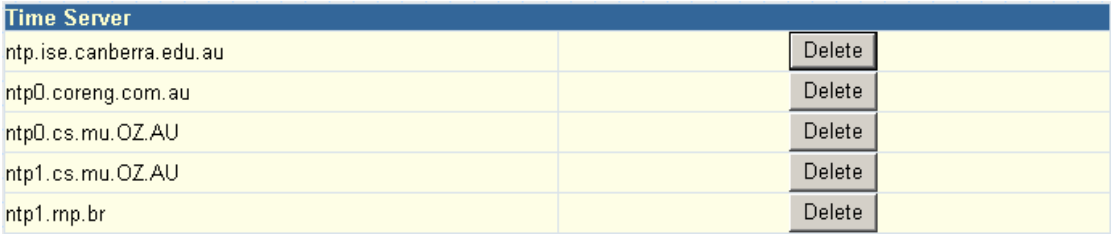


Time Between Automatic Updates

This item sets the interval between each time synchronization. Select either; 1, 3, 12 hours or 1, 10 & 30 days. For manual and instant update, click "Adjust Now"

Time Server

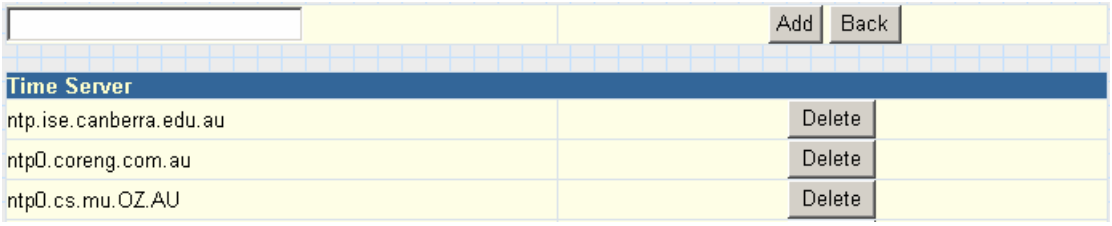
Click the down arrow and choose the nearest Time Server to your NetProbe Lite location. Click "Edit" to bring up a list of 30 of the most common *Time Servers*.



Note: NetProbe Lite can list a maximum of 30 *Time Server*s. In order to "Add" a new time server location, you must first delete an existing time server from the list.

To add a new time server location;

1. Click "Delete" to remove unwanted *Time Server*.
2. Click "OK" when it prompt "Are you sure that you want to delete the data?"
3. Enter the new time server URL in the space below and click "Add".



Click "Back" to go back to the *System Time* menu.

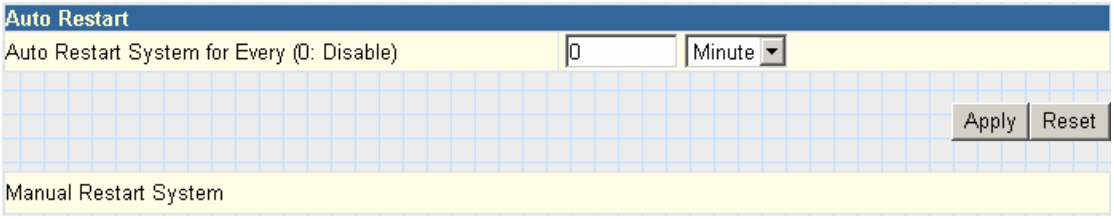
Time Zone (Relative to GMT)

Select the appropriate time zone for your area relative to GMT. The *System Time* will change automatically when the *Time Zone* is set.

System Time (mm/dd/yyyy hh:mm:ss)

This section is to set NetProbe Lite System Time manually. The format is pre-determined to: mm/dd/yyyy hh:mm:ss

ii. Auto Restart



Auto Restart System for Every (0: Disable)

Use this setting to auto restart the system at a predetermined interval. The default value is set to "0" (disabled). Enter between, 1 to 9999 Minute (i.e., between 1 minute or 166.65 hour) or 1 to 9999 Hour (1 hour to 416.6 days).

Warning: If the system resets, all the data recorded in the Event Log or Data Log will be erased!

Manual Restart System

Use this feature to manually restart the system.

1. Click "Apply",
2. A "Restart System Now" message will appear to confirm that the system is being restarted.

3. Click IE or your browser *Refresh* button to return to the webpage.

2.3 Log Information

NetProbe Lite will create log information for any variations detected and record it. Two types of logs are available,

2.3.1 Event Log

2.3.2 Data Log

2.3.1 Event Log

An event log will be created for each of the device connected to NetProbe Lite. A total of 500 records can be logged. Click "Clear" at the bottom right of the log to delete all log files. The Event Log will record;

Date/Time	Type	Event
01/01/2001 00:00:45	8ai	Undefined
01/01/2001 00:00:23	8ai	Analog group5 Underrun
01/01/2001 00:00:18	8ai	Analog group6 Underrun
01/01/2001 00:00:18	8ai	Analog group4 Underrun
01/01/2001 00:00:18	8ai	Analog group2 Underrun
01/01/2001 00:00:08	8ai	Analog group3 Underrun
01/01/2001 00:00:06	8ai	Analog group7 Underrun
01/01/2001 00:00:04	8ai	Analog group8 Underrun

Date/Time

This is a record of the Date (mm/dd/yyyy) and Time (hh:mm:ss) when the data was recorded. The interval between every log can be set in Configuration.

Type

This shows the current *Signal Detection Type*. Refer to the icons below;

: 8-Analog Input

: 4-Differential Signal Input (Bipolar)

: 4-Differential Signal Input (Unipolar)

: 4-Contact Closure Input

Event

This displays the event corresponding to the Date/Time. The events that will be recorded for the detection:

	Signal Detection Type	**Event Recorded**
a.	8-Analog Input	Group #; Overrun, Normal and Underrun
b.	4-Differential Signal Input (Bipolar)	Group #; Overrun, Normal and Underrun
c.	4-Differential Signal input (unipolar)	Group #; Overrun, Normal and Underrun

d. 4-ContactClosure Input Group #; Close or Open state

2.3.2 Data Log

This is a data log page. It record changes in temperature, humidity and data from each connected device. It can log up to 500 events.

When this limit is reached NetProbe Lite will delete the earliest event record and continue logging new events. Logs can be saved in CSV format by clicking on "Save Data Log".

Date/Time	Temperature	Humidity	Group1	Group2	Group3	Group4	Group5	Group6	Group7	Group8
07/21/2004 16:25:36	27.27C 81.09F	28 %	0.34	0.61	0.45	0.48	0.45	0.31	0.00	0.00
07/21/2004 16:24:35	27.27C 81.09F	29 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/21/2004 16:23:35	27.73C 81.91F	29 %	1.11	0.77	0.51	0.51	0.56	0.51	0.11	0.26
07/21/2004 16:22:35	26.82C 80.27F	30 %	0.42	0.55	0.37	0.39	0.37	0.31	0.21	0.16
07/21/2004 16:21:35	27.27C 81.09F	32 %	0.71	0.80	0.56	0.59	0.64	0.55	0.37	0.22
07/21/2004 16:20:35	27.27C 81.09F	30 %	0.85	1.01	0.69	0.66	0.69	0.58	0.40	0.26
07/21/2004 16:19:35	27.27C 81.09F	32 %	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.03
07/21/2004 16:18:35	27.27C 81.09F	32 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/21/2004 16:17:35	27.27C 81.09F	30 %	0.88	1.01	0.66	0.64	0.67	0.59	0.42	0.31
01/01/2001 00:00:04	27.27C 81.09F	30 %	1.27	1.09	0.71	0.67	0.77	0.69	0.39	0.35

1

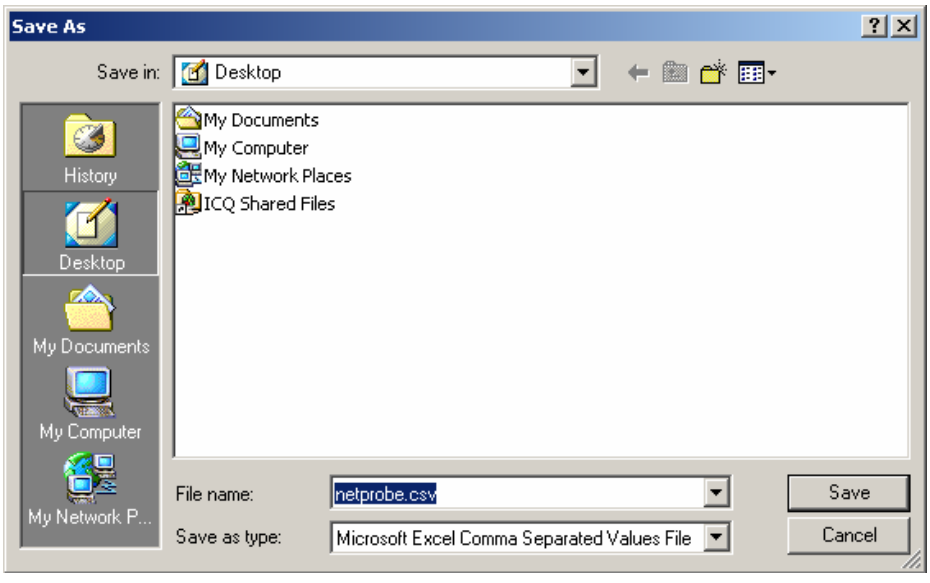
Clear

Note: To change the record interval between each data log go to "NetProbe Properties" → "Data Log"

2.3.3 Save Data Log

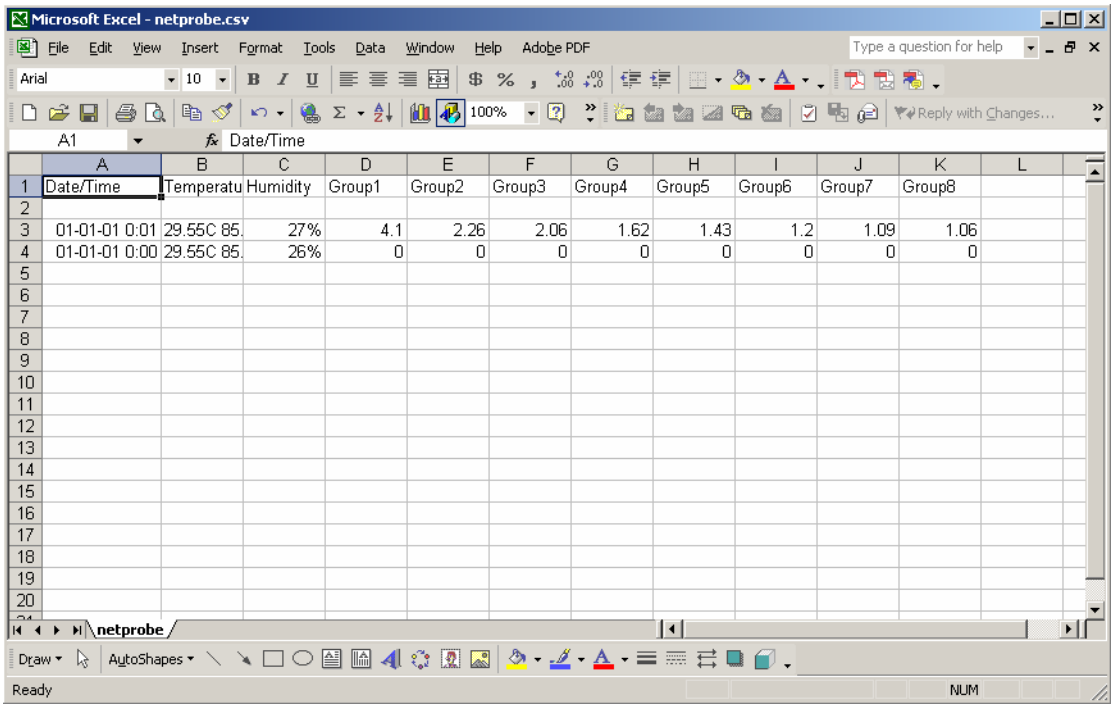
Use this function to save a record of the Data Log. Any record not saved will be lost in the event of a system reboot.

1. Click on "Save Data Log" to download the CSV file. Choose a file name and location. The default file name is netprobe.csv



2. Click "Save" to start downloading the file.

3. Use Microsoft Excel to open the file.



	A	B	C	D	E	F	G	H	I	J	K	L
1	Date/Time	Temperatu	Humidity	Group1	Group2	Group3	Group4	Group5	Group6	Group7	Group8	
2												
3	01-01-01 0:01	29.55C 85.	27%	4.1	2.26	2.06	1.62	1.43	1.2	1.09	1.06	
4	01-01-01 0:00	29.55C 85.	26%	0	0	0	0	0	0	0	0	
5												
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2.4 Help

2.4.1 About NetProbe

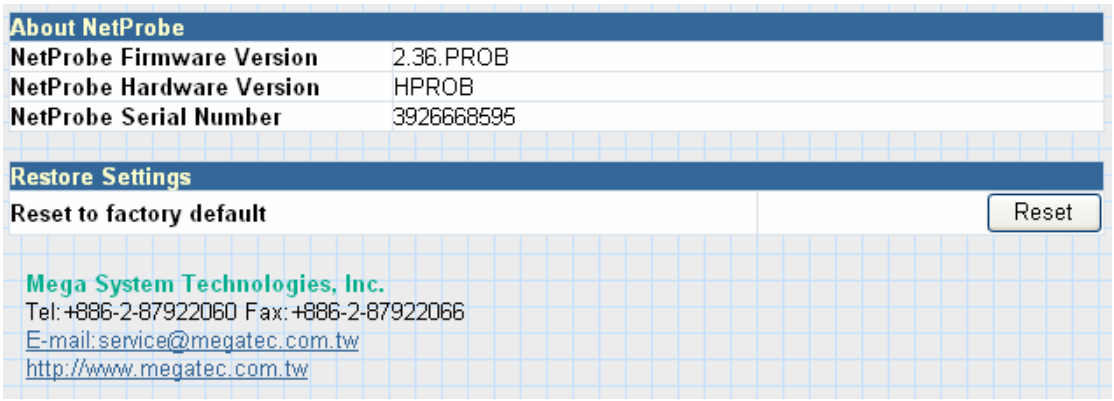


Fig.31 Event Log

NetProbe Lite Firmware Version

Display NetProbe Lite firmware version details.

NetProbe Lite Hardware Version

Show the hardware version.

NetProbe Lite Serial Number

Shows the serial number

Reset to Factory Default

Resets all settings to default settings.

Manufacturers Details

Display the manufacture's contact details. Click on the email address to send an email to Mega System Technologies, Inc. Alternatively, click on the url to visit the website.

Appendix A: Methods to Update NetProbe Lite Firmware

You can update NetProbe Lite's firmware using any of the following methods.

Method 1: Using Netility

(1) Use "Download Firmware" function under Netility to update it.

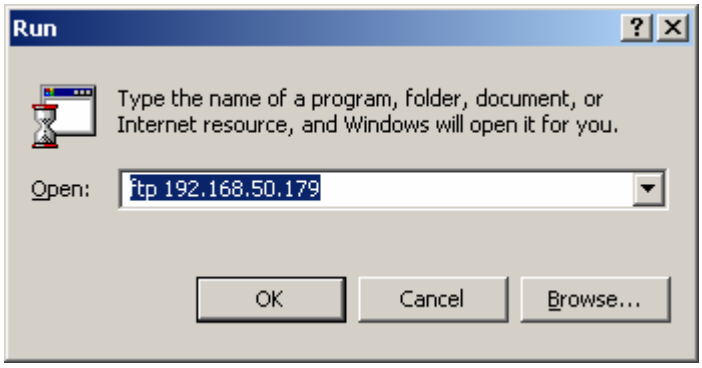
Method 2: Using FTP

Windows FTP is another way to *upload* the latest firmware into NetProbe Lite. You can also use other FTP client software to do this.

In the following example, NetProbe Lite IP address is 192.168.50.179

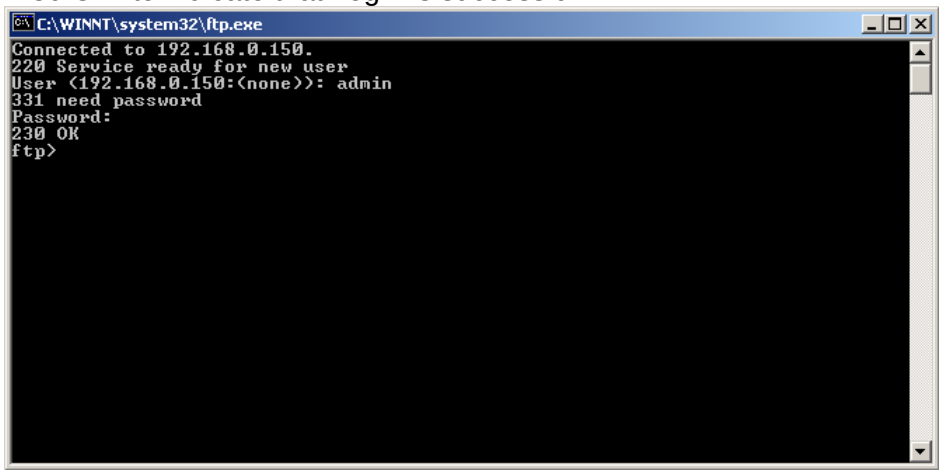
(1) Click "Start" on Windows taskbar, then "Run..", type in "ftp 192.168.50.179"

(2) Click "OK"



(3) The systems will requests for your User Name and Password. Enter "admin" for User Name and press "Enter". The default password is left blank.

Once the User Name and Password is verified, the server will response with "230 OK" to indicate that Login is successful.



If you enter the wrong Username or Password, the server will response with "530 Not Logged in".

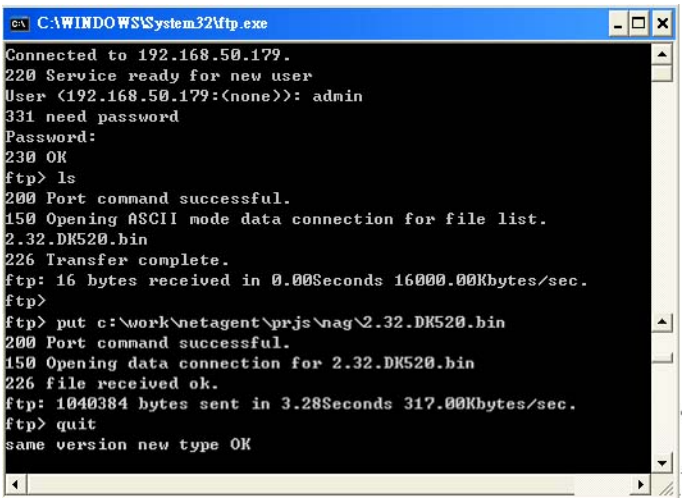
(4) FTP commands:

ls : This command request the server to list all files and sub-file in the current menu. User may finds out the firmware version of the NetProbe Lite of its IP.

put <client's file route> : This command ask the client to copy its specific file route to the Server point. Use this to upload the latest firmware to your NetProbe Lite

quit : This command allow the user to logout and close the FTP connection.

Illustration: The picture shows, that the latest NetProbe Lite firmware file uploaded from the local computer located in (c:\work\netagent\prjs\nag\2.32.DK520.bin) to the NetProbe Lite with an IP address 192.168.50.179



Method 4: Using IE Browser

This method uses IE to update the latest firmware. Open IE, then type in the account, password and NetProbe Lite IP address to be updated in the following format, ftp://<username>:<password>@<NetProbe Lite IP address>.

Once logged in, the current firmware and version will be displayed. Copy the latest firmware to here to complete the updating process.

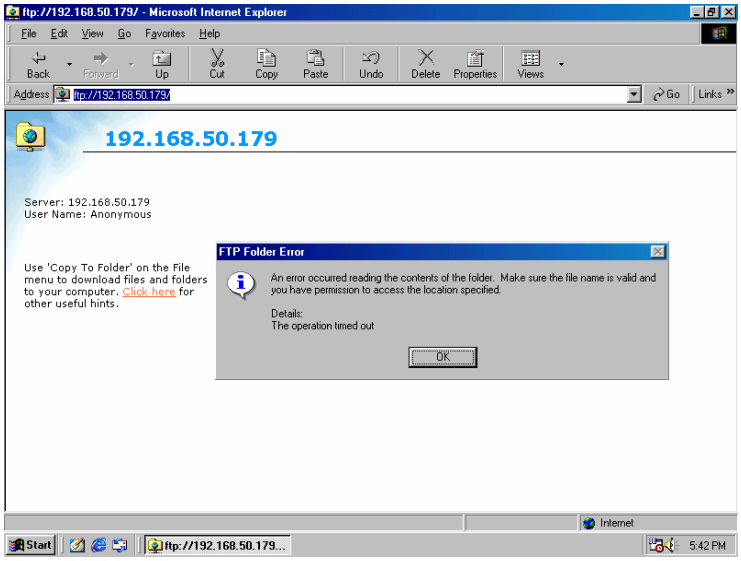
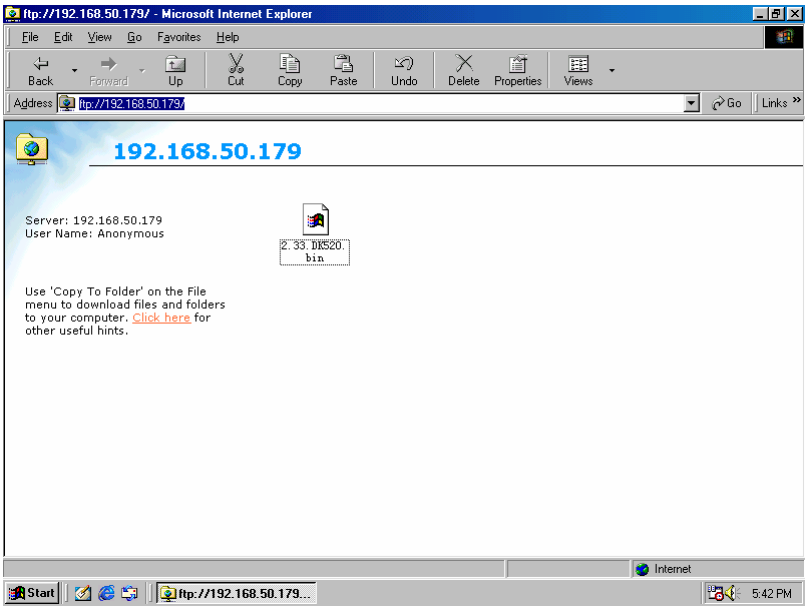
There are two method to log in:

(a) **ftp://admin:password@192.168.50.179**

Enter the password that was set earlier using Netility. Otherwise, enter NetProbe Lite's default value:
Username: admin
Password: <blank>
(example: ftp://admin:@192.168.50.179)

(b) **ftp://192.168.50.179/**

The follow error message will show, when the above is entered. Ignore it and select "Enter Identity" at the top left corner of file menu. Then enter "admin" as the User Name and <blank> Password to re-enter.



Once the connection has been established, the following window will be display. The user may then transfer the latest firmware here in order to complete the updating steps.