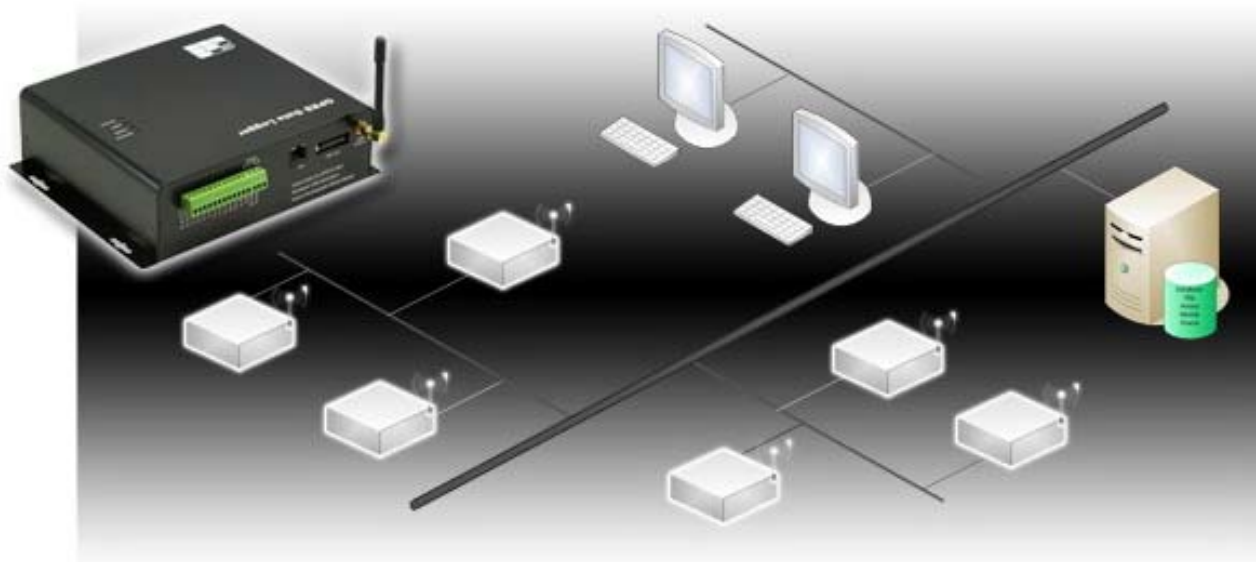


# Multipoint Temperature NET Data Logger

Version 7.1

## NET-HV\_Setup Software Guide

[Windows XP/Vista/7]



**NET-THR-HV**

Revision 120218 [Ver. 1.0.1A]

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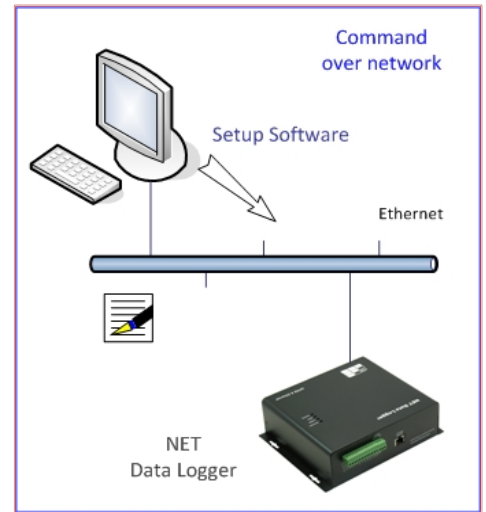
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### 1. How to setup the NET Data Logger?

#### Local Network Setup

1) Ethernet Port over network:

- “NET-HV\_Setup” software is necessary for this operation.
- Network must be built up between data logger and PC.
- NET-THR-HV default network properties:
  - IP: 192.168.0.100
  - Port: 6800
- Each device has its own and fixed MAC address



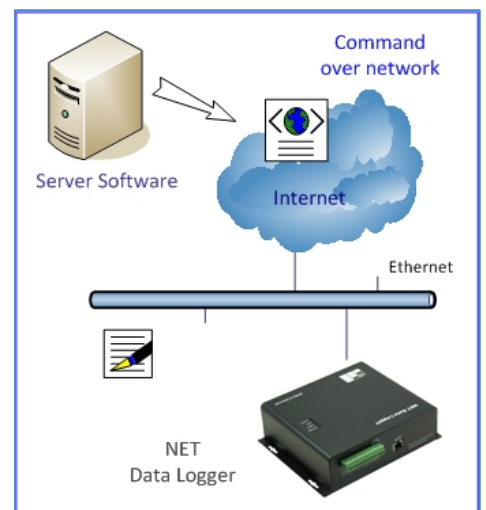
**i** MAC address will be the unique identification of each device

- 1] Connect NET-THR-HV and Computer to the same network
- 2] Configure the PC network properties 192.168.0.xxx
- 3] Install Setup Software with Product Key (xxx-xxx-xxx-xxx)
- 4] Run the Setup Software
- 5] Select [Ethernet], and click [Auto Scan] button
- 6] All NET-THR-HV devices on the same network will be automatically detected
- 7] IP and MAC addresses are listed in the phone book
- 8] Select a device, and click [Edit]
- 9] Modify or Add its “Setup Password”: 888888 and “Enquiry Password”: 999999
- 10] Select the Connection ID, and click [Connect]
- 11] Click [Status] button
- 12] Current parameters of NET-THR-HV will be displayed

#### Remote Setup

2) Internet by PC:

- “Ultimate Server” software is necessary for this operation.
- PC sends command in IP data format over Internet.



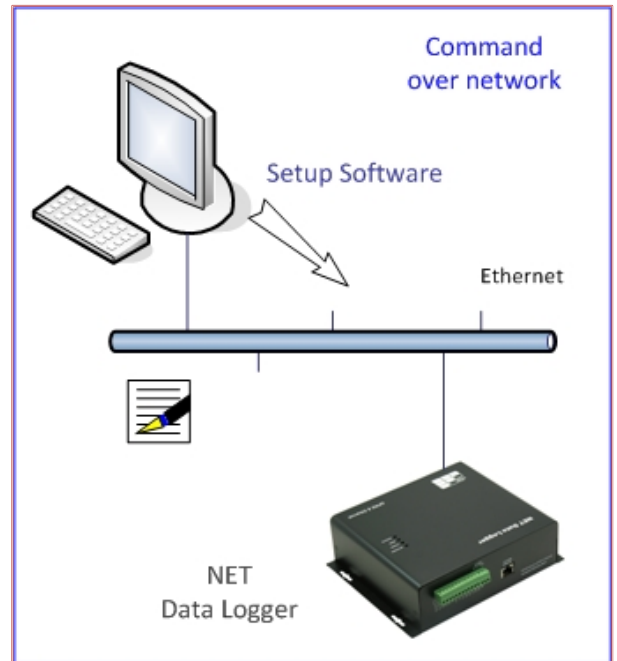
## 2. Network Setting

### 2.1 Default Network Properties

- NET-THR-HV default network properties:

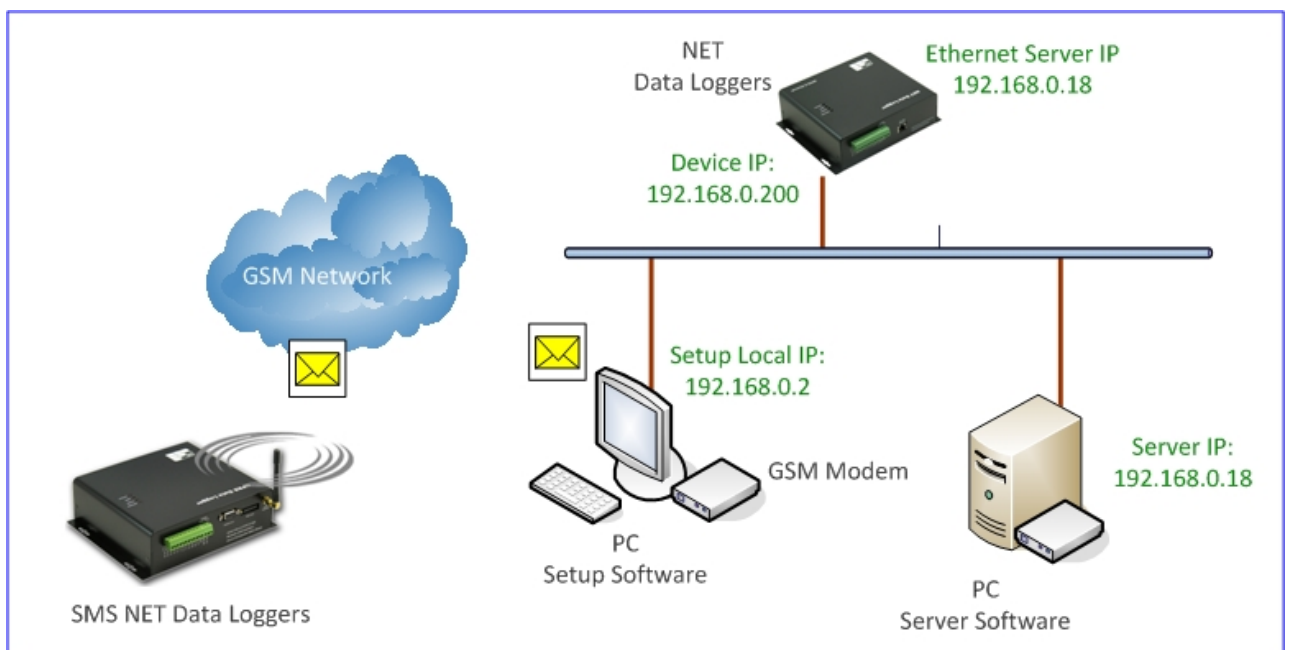
IP: 192.168.0.100

Port: 6800



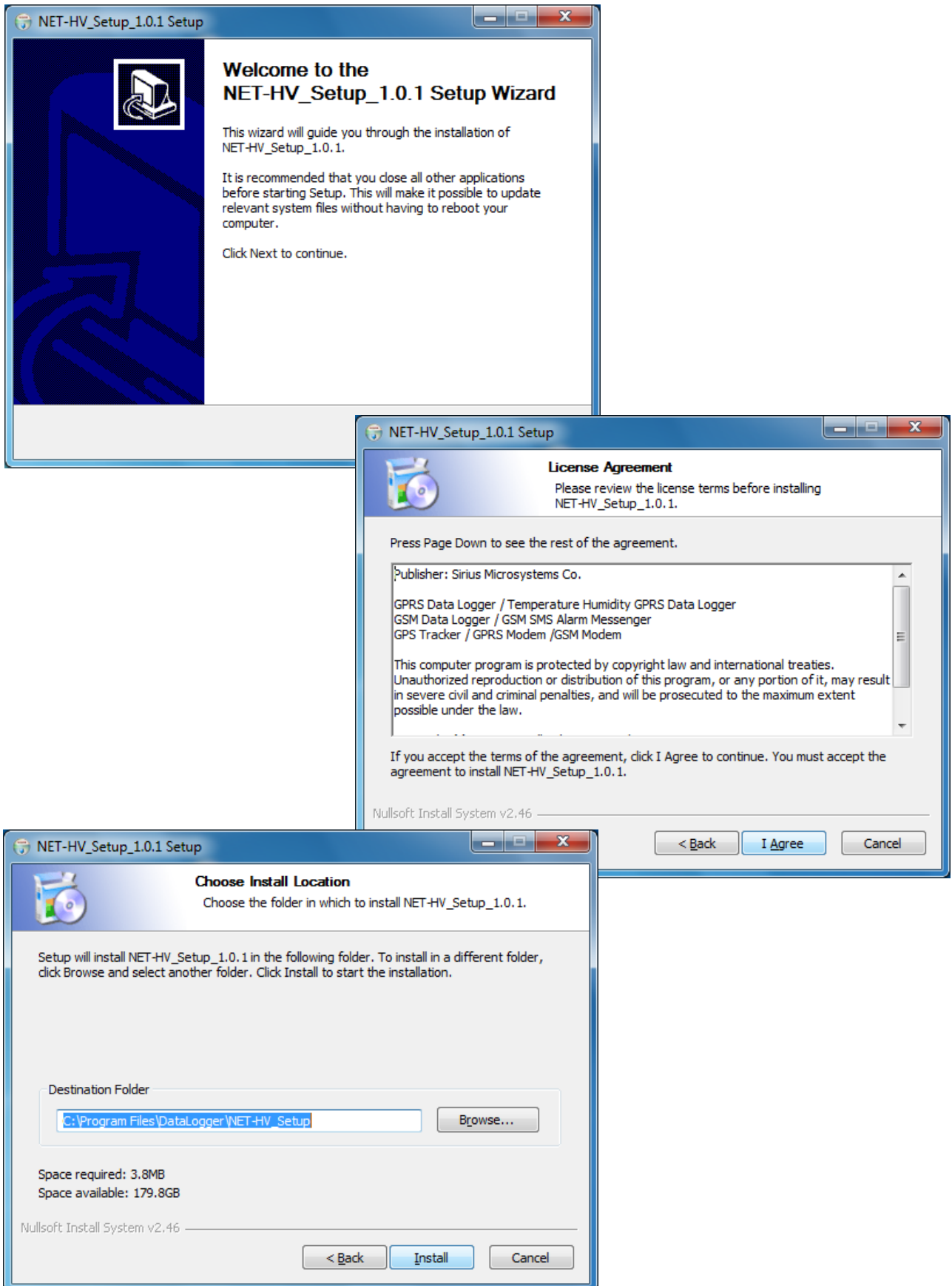
### 2.2 Configuring PC network properties

- Before installing Setup Software, modify PC network properties such that it is in the same network
- IP should be 192.168.0.xxx

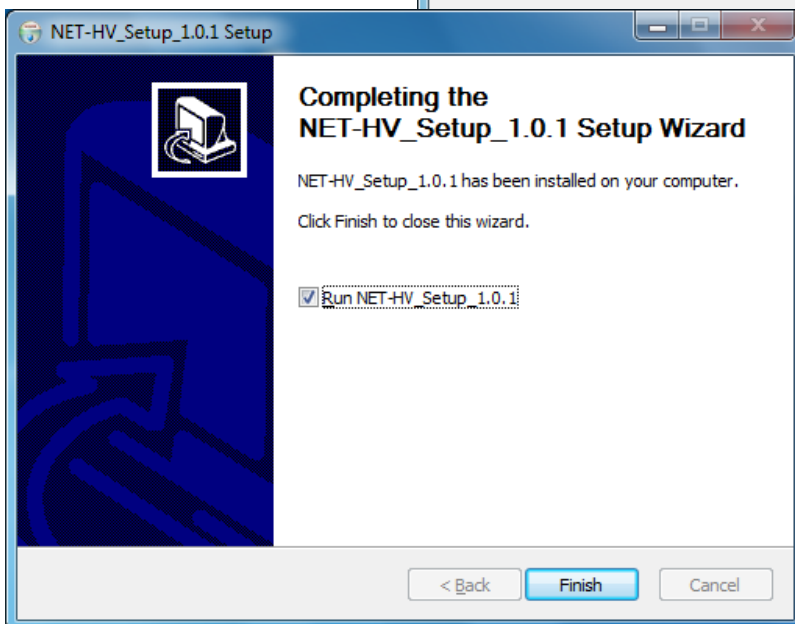
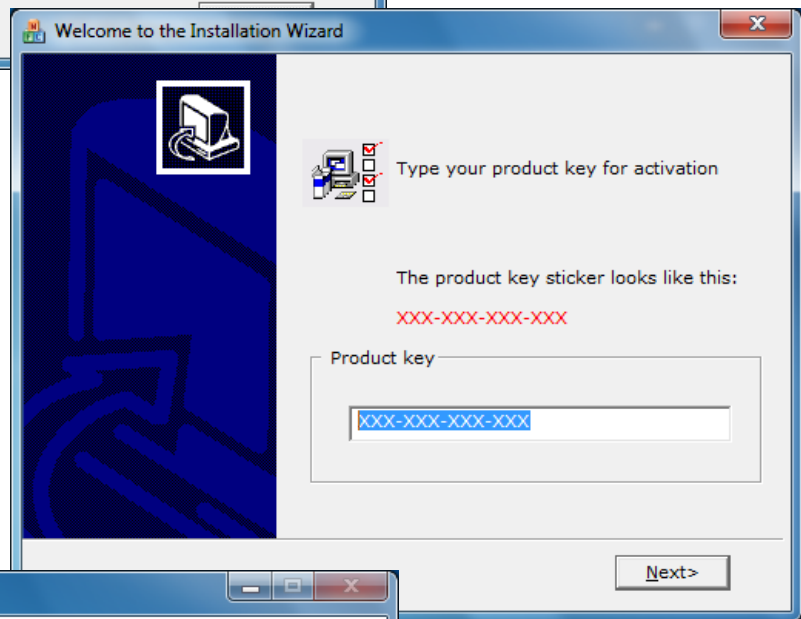
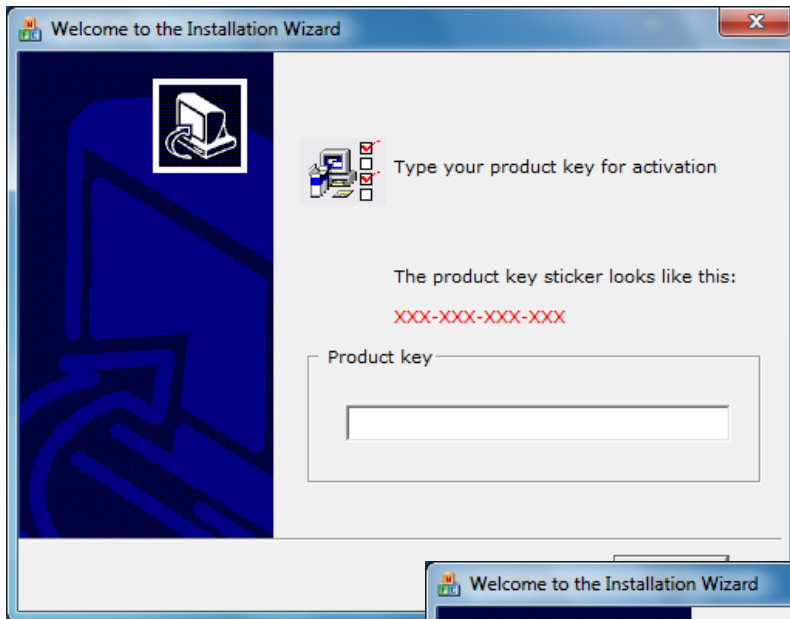


### 3. Install the “Setup” software

Run “NET-HV\_Setup”, and follow the instructions

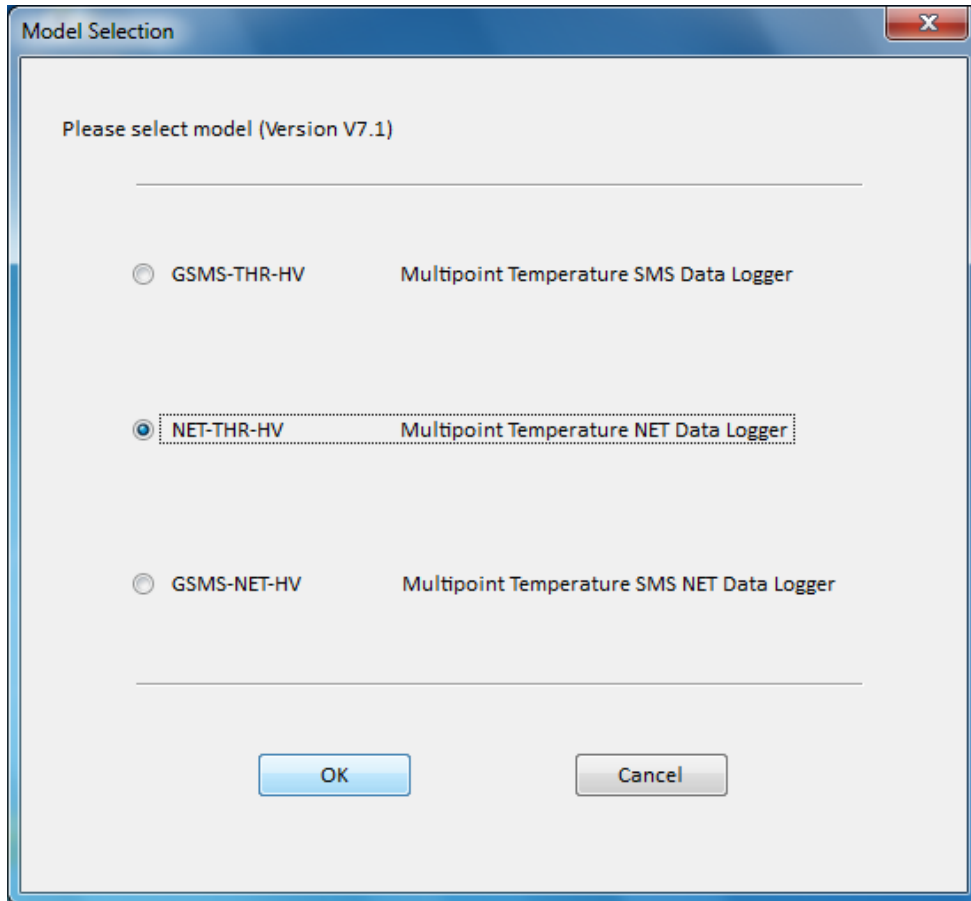


Enter the Product Key which can be found on the CD label

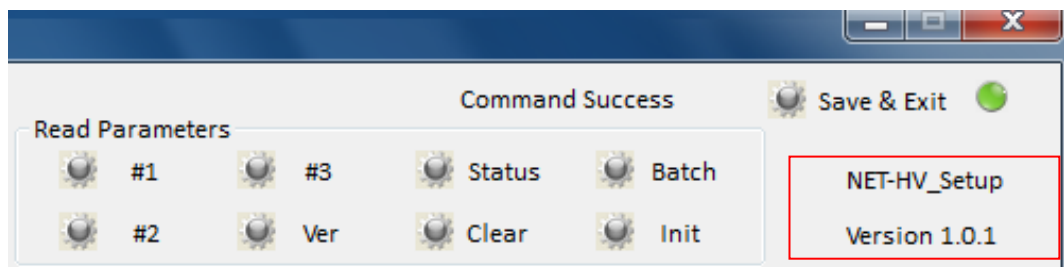


#### 4. Select Model

- Select the model of NET Data Logger
- Make sure that the hardware version is V7.1 by checking the label on the product



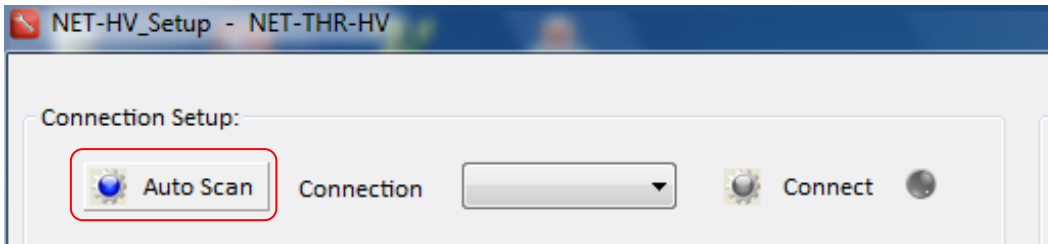
- Setup Software Version



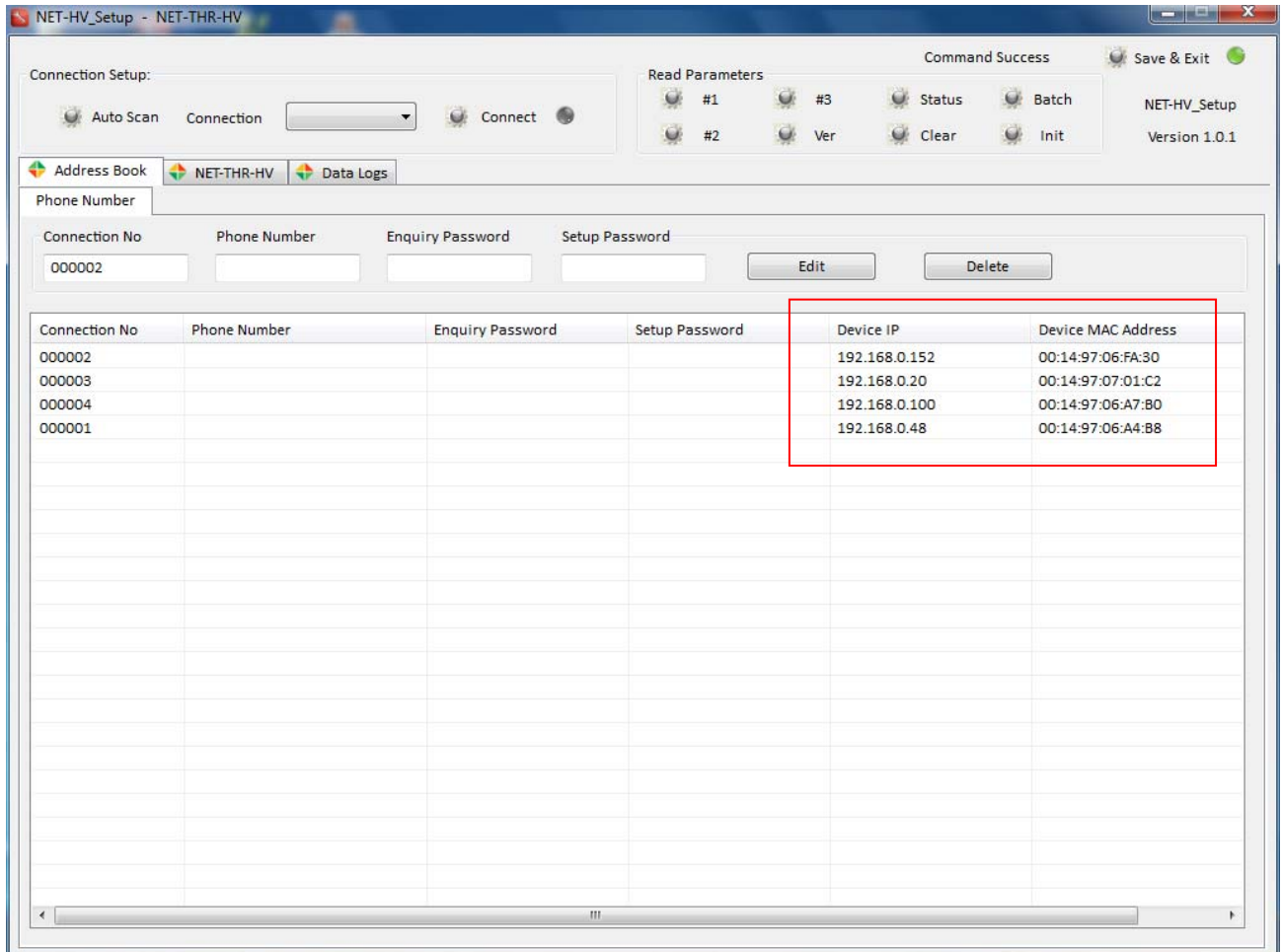
### 5. Start Up Procedures

A) Auto Scan Devices in the network

- Select [Ethernet]
- Click [Auto Scan] button to detect NET-THR-HV devices in the same network



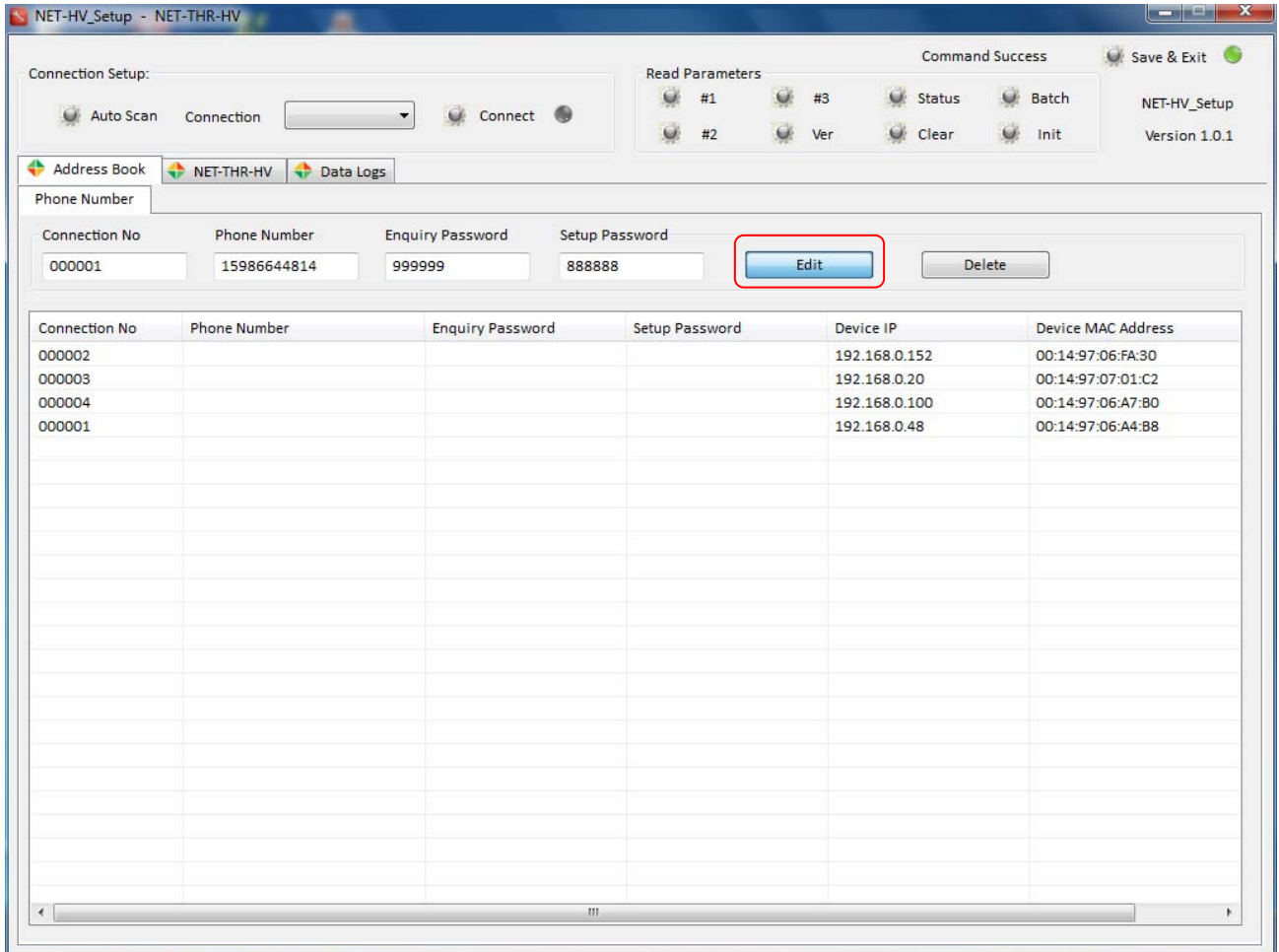
- All detected NET-THR-HV devices will be listed in phone book
- Device IP and MAC address will be displayed
- MAC address will be the unique identification of each device





B) New Devices

- New device will require user to enter its phone number and password
- Without password, Setup Software is not authorized to configure the device.

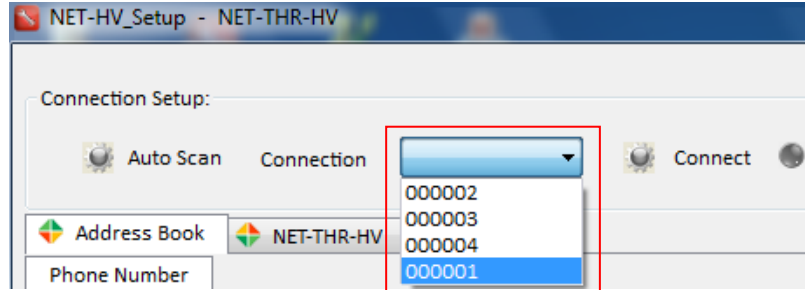


- Factory Default of Data Logger properties
  - Phone Number: SIM Card phone number [not available in NET-THR-HV]
  - Enquiry Password: 999999
  - Setup Password: 888888
- “Enquiry password” and “Setup password” of Data Logger in phonebook must match its internal passwords.
- Once the properties are modified in [Device Setup] page, the database of Phone Book will be updated automatically.
- Whenever Data Logger internal passwords are modified, the corresponding passwords in the phonebook will be updated automatically at the same time.

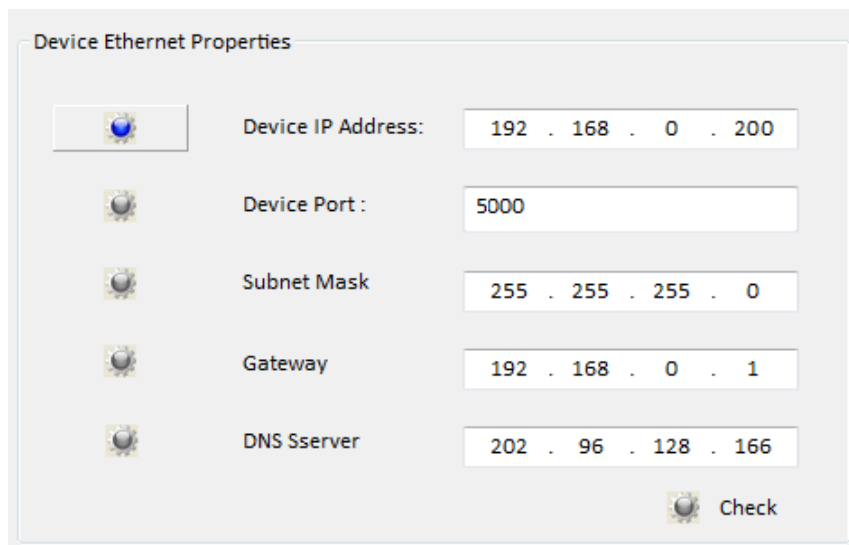
## 6. Device Network Setup

### 6.1 Establish Network Connection

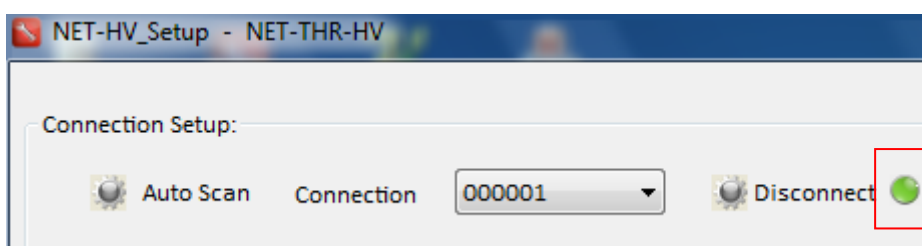
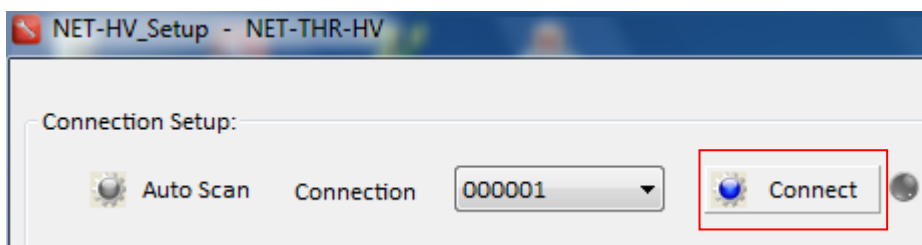
- After entering the password in each device, select connection number for network setup.



- Select [Network] tab, and change the Device Ethernet Properties if necessary



- Click [Connect] button to establish network connection between setup PC and data logger.
- Only after the network connection is done (green LED), other parameters of data logger can be configured.




6.2 Ethernet Properties

- It is the device RJ45 port.
- Ethernet setting is used for connecting to the network.

6.3 Local PC Network Properties

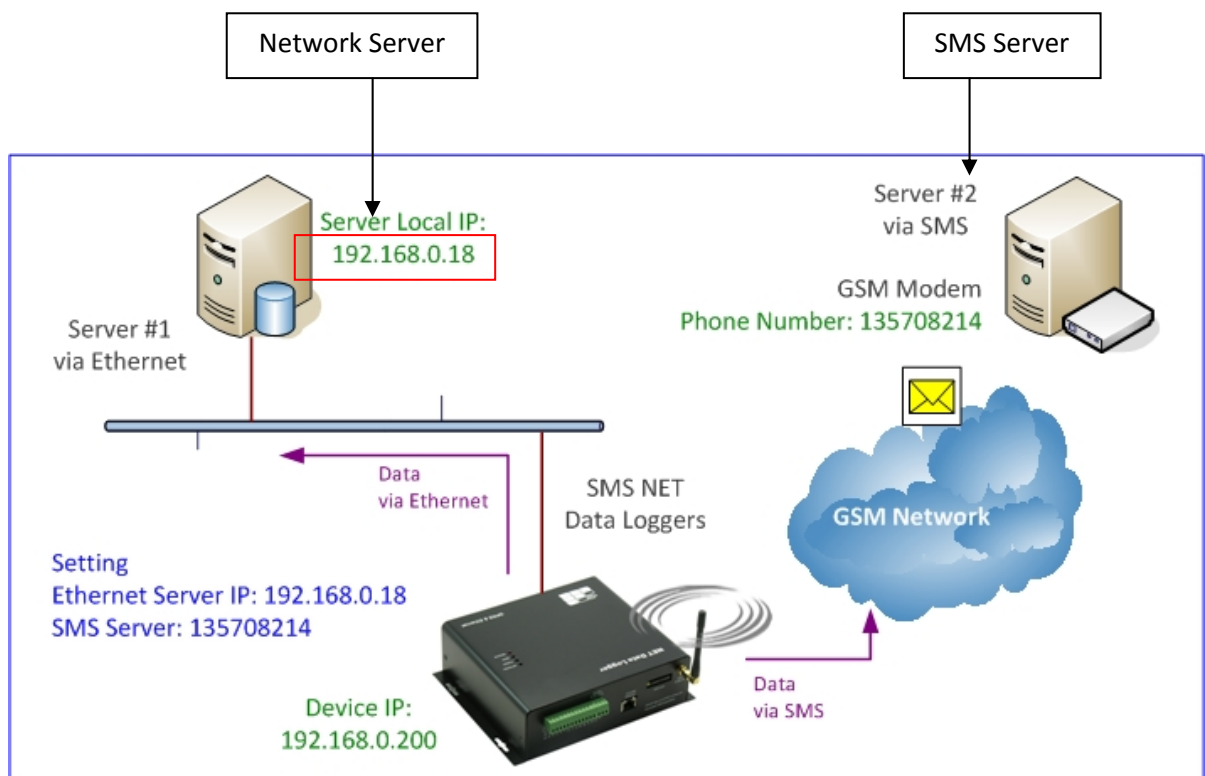
- It is the network setting of PC running the Setup Software.
- Local IP is automatically detected.

6.4 Server Network Properties

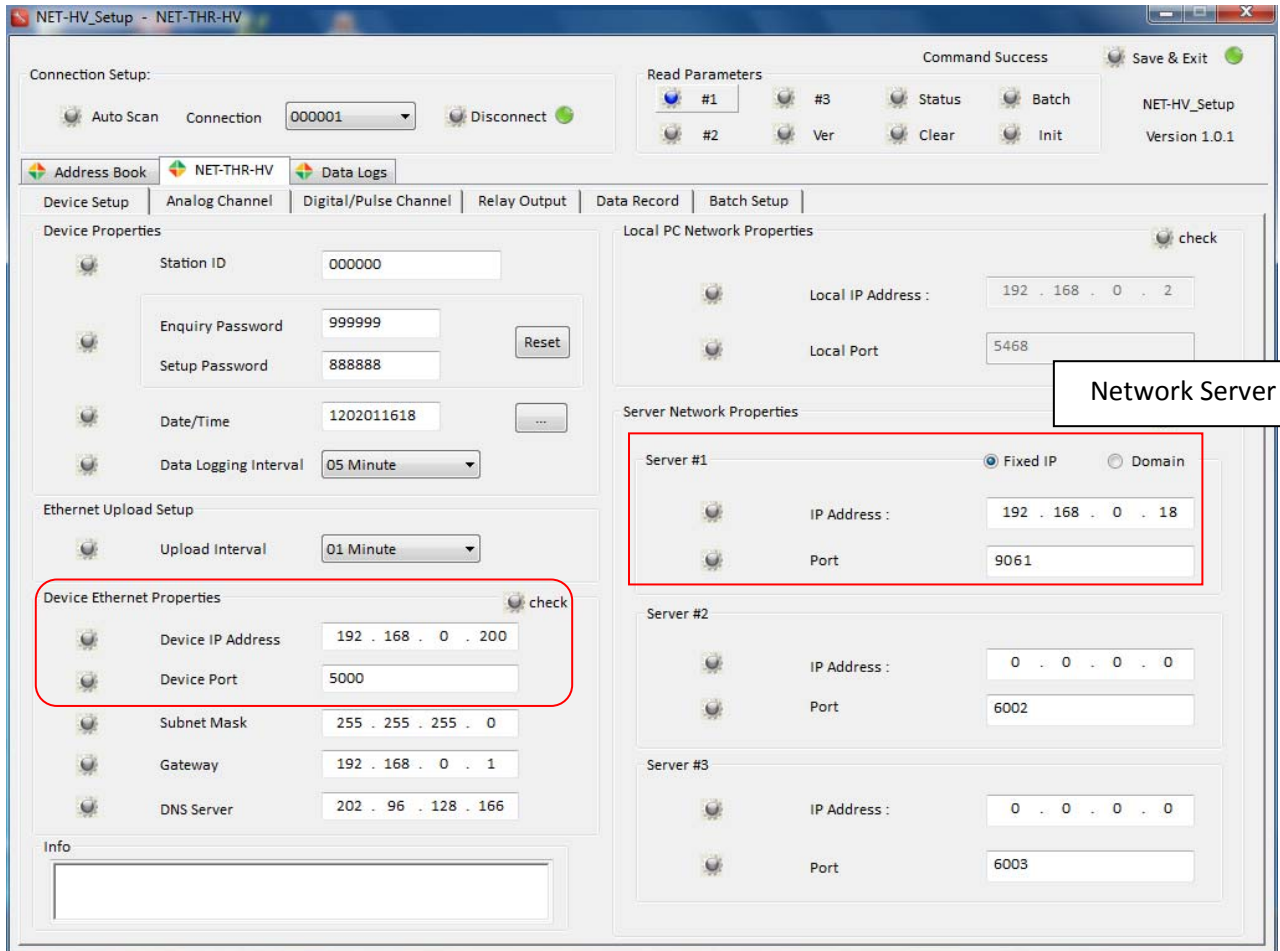
- NET-THR-HV can upload data to 3 different server IP addresses simultaneously.
- Server IP and Port must be matched to the SMS Server setting.
-  Ethernet Server Port and GPRS Server Port must be different

6.5 Network Schematics

- Refer to the parameters of Setup Software on next page
- Indication of each IP can be found on following schematics

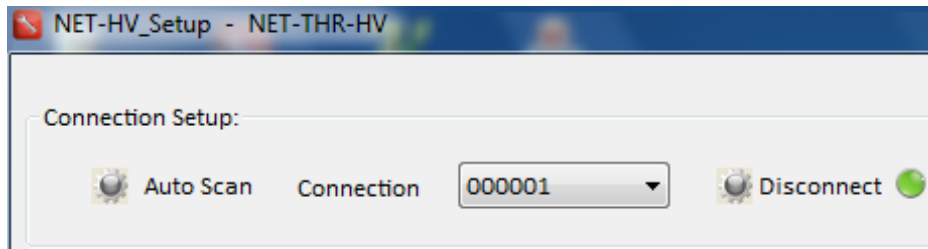


[Network Setup Screen]




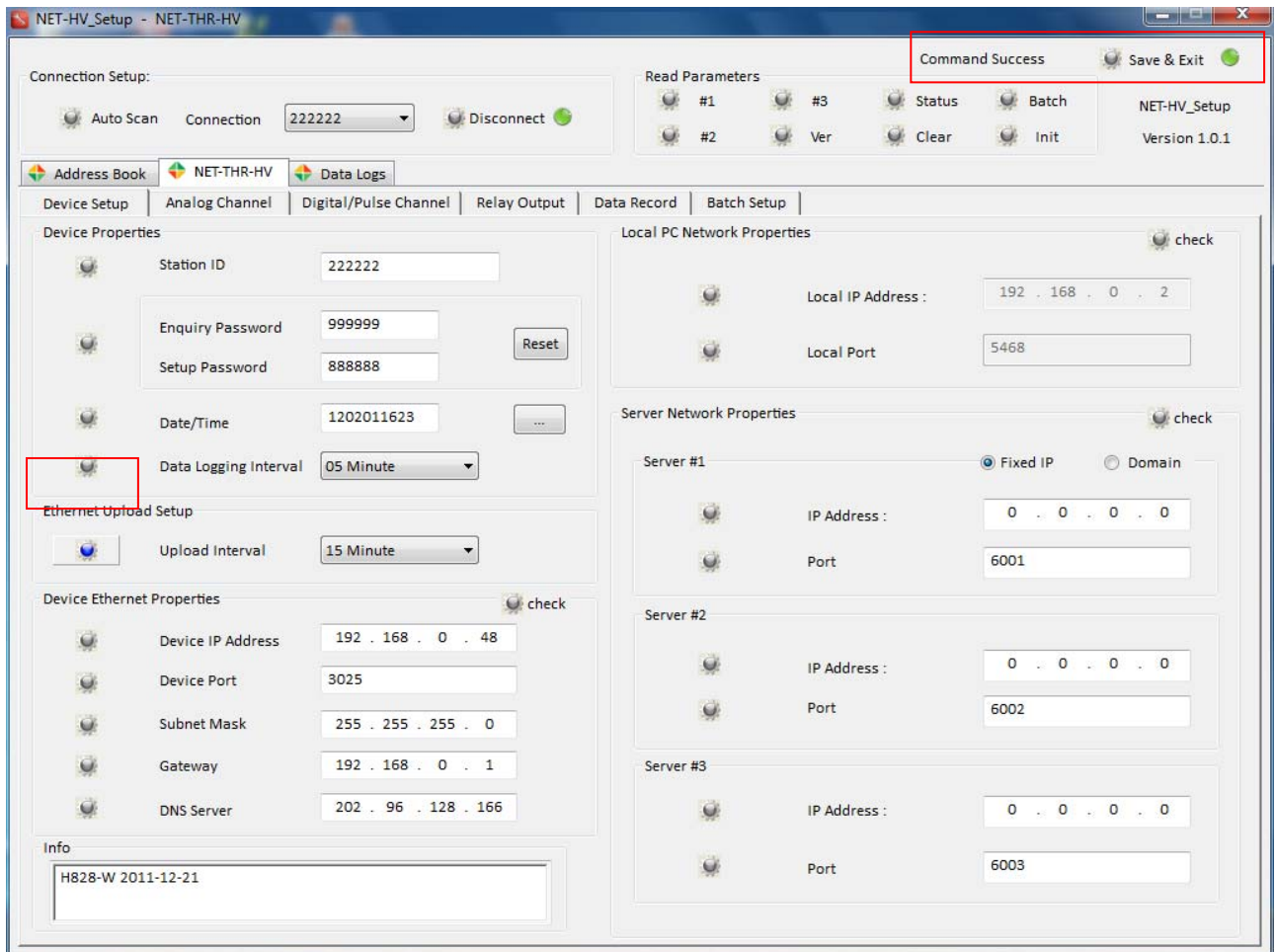
### 7. Device Setup


Select the Connection ID, and click [Connect] button, green LED indicates successful connection.




Device properties are configured for daily operation.

Selecting the values of each parameter, and click  button




When command is in progress, button will be displayed as  and no other command will be accepted at that moment. Command Status will be “Command in progress ...”.

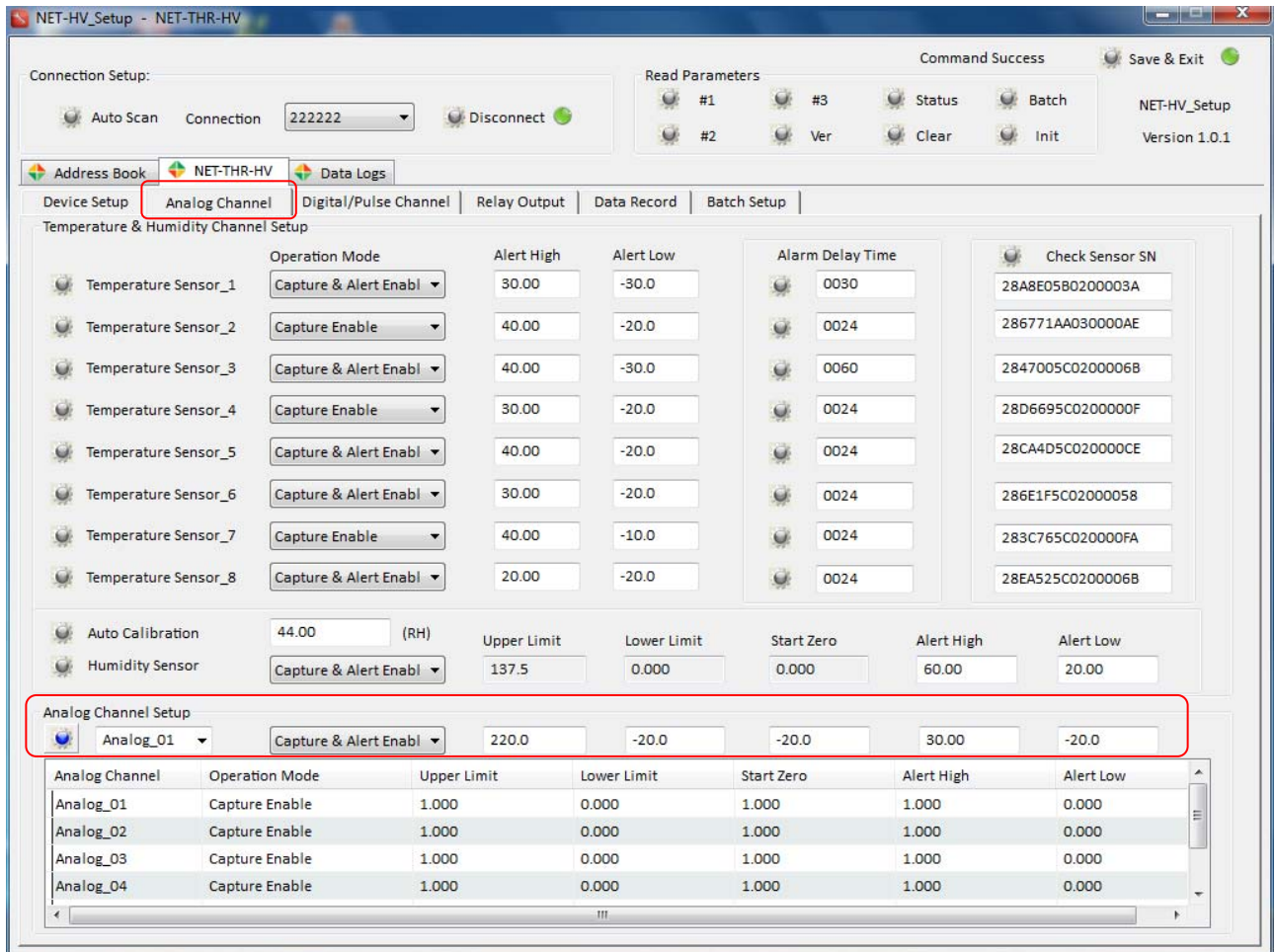
“Command Success” message and green LED confirm the completion of command.

 Acknowledge & Reconnect Interval should only be modified when GRPS network is very unstable.


### 8. Analog Channel Setup

It is used to setup the analog channel and associated alarm properties.

- a) Selecting the option and modify the parameters
- b) Click  button to activate the command



For example:

When Analog\_01 channel is selected and relevant properties are configured, click  button to confirm the setup.

Operation Mode:

- Disable - No data capturing or logging
- Capture Enable - Data capturing and logging, but no alarm is generated
- Capture & Alert Enable - Data capturing and logging  
- Alarm is triggered when higher/lower than preset alert levels

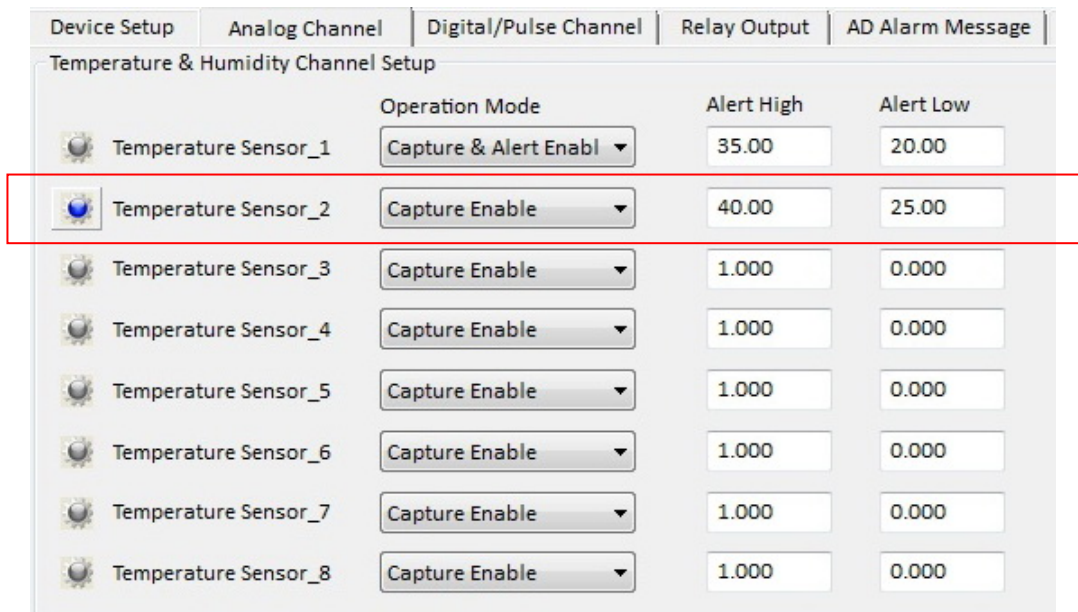
### 9. Temperature Channel

NET-THR-HV supports 8 x digital temperature sensors [DS18B20].

Values are shown and stored in AD data fields, but sensors should NOT be connected to AD inputs.

A) Temperature Reading:

- [Temperature Sensor\_1] = [AD13] data field
  - [Temperature Sensor\_2] = [AD14] data field
  - [Temperature Sensor\_3] = [AD07] data field
  - [Temperature Sensor\_4] = [AD08] data field
  - [Temperature Sensor\_5] = [AD09] data field
  - [Temperature Sensor\_6] = [AD10] data field
  - [Temperature Sensor\_7] = [AD11] data field
  - [Temperature Sensor\_8] = [AD12] data field
- Alert High and Alert Low will be the levels triggering alarm when temperature is higher/lower than these alert values.
  - Measuring & Alert Range: -55 ~ 125 °C

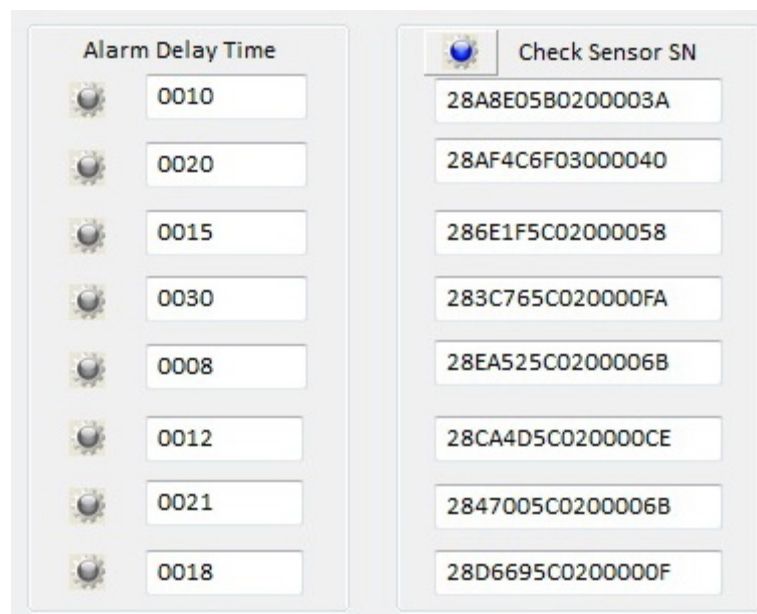


Operation Mode:

- Disable - No data capturing or logging
- Capture Enable - Data capturing and logging, but no alarm is generated
- Capture & Alert Enable - Data capturing and logging  
- Alarm is triggered when higher/lower than preset alert levels

B) Sensor Serial Number

- Each digital temperature sensor DS18B20 has its own and unique serial number.
- It is normally not necessary to calibrate the measurement.
- Serial Number is specially designed for fine calibration of each sensor.
- For detail, please visit [www.maxim-ic.com](http://www.maxim-ic.com) about the fine calibration of sensor.
- In order to let user get the serial number of attached sensor for each channel, NET-THR-HV provides the command to read this information.



C) Temperature Alarm Time Delay

- Alarm is triggered when TEMP 1 ~ 8 temperature reading is higher or lower than user preset values.
- Alarm will only be valid when the temperature keeps at higher or lower level for the time delay in seconds.
- User will only be alerted via SMS or GPRS only after the preset delay.
- When temperature reading returns to normal level within the time delay, the alarm will be cancelled.

Note: When the freezer or cold storage door is open for a while, the temperature may rise to an alert level during the worker operation. It is useful to avoid this kind of false alarm.



### 10. Humidity Channel

NET-THR-HV is integrated with 1 x humidity sensor.

Humidity sensor is analog type, and necessary to calibrate the measurement.

Sensors should NOT be connected to other AD inputs.

- [Humidity Sensor\_1] = [AD00] data field

#### 10.1 Auto Calibration

Calibration of Humidity Sensor is necessary before setup the alert high and low values.

- Prepare an accurate humidity measuring instrument
- Put the instrument and NET-THR-HV humidity sensor in same place
- Take the reading from the instrument
- Enter the reading into the “Actual Humidity”
- Click button [Start Calibration]
- “Upper Limit”, “Lower Limit” and “Start Zero” are calibrated.



NET-HV\_Setup - NET-THR-HV

Connection Setup: Auto Scan Connection 222222 Disconnect

Read Parameters: #1 #3 Status Batch #2 Ver Clear Init

Command Success Save & Exit

NET-HV\_Setup Version 1.0.1

Address Book NET-THR-HV Data Logs

Device Setup Analog Channel Digital/Pulse Channel Relay Output Data Record Batch Setup

Temperature & Humidity Channel Setup

Sensor	Operation Mode	Alert High	Alert Low	Alarm Delay Time	Check Sensor SN
Temperature Sensor_1	Capture & Alert Enabl	30.00	-30.0	0030	28A8E0580200003A
Temperature Sensor_2	Capture Enable	40.00	-20.0	0024	286771AA030000AE
Temperature Sensor_3	Capture & Alert Enabl	40.00	-30.0	0060	2847005C0200006B
Temperature Sensor_4	Capture Enable	30.00	-20.0	0024	28D6695C0200000F
Temperature Sensor_5	Capture & Alert Enabl	40.00	-20.0	0024	28CA4D5C020000CE
Temperature Sensor_6	Capture & Alert Enabl	30.00	-20.0	0024	286E1F5C02000058
Temperature Sensor_7	Capture Enable	40.00	-10.0	0024	283C765C020000FA
Temperature Sensor_8	Capture & Alert Enabl	20.00	-20.0	0024	28EA525C0200006B

Auto Calibration 44.00 (RH) Upper Limit Lower Limit Start Zero Alert High Alert Low


Humidity Sensor Capture Enable 137.5 0.000 0.000 100.0 0.000

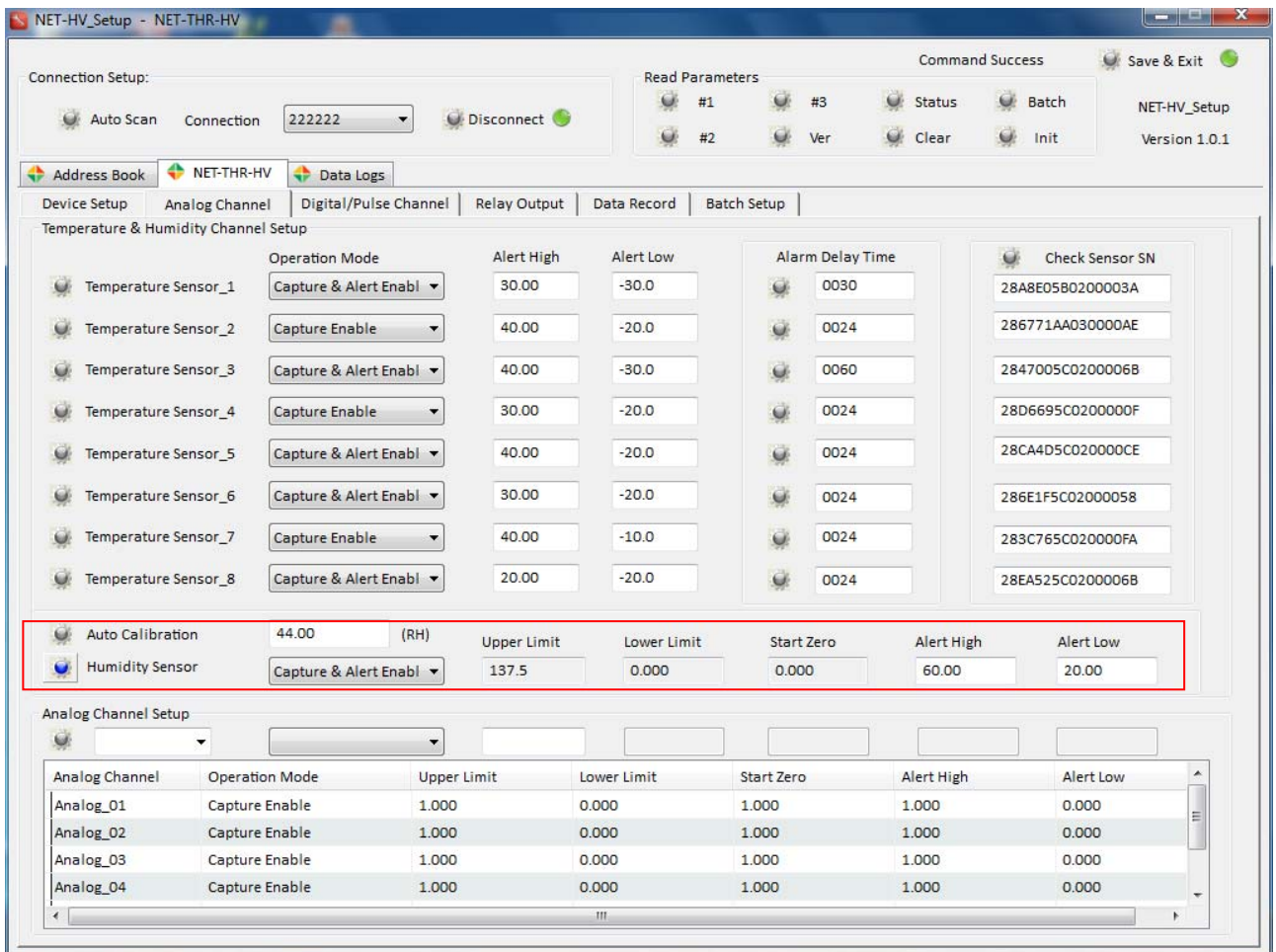
Analog Channel Setup

Analog Channel	Operation Mode	Upper Limit	Lower Limit	Start Zero	Alert High	Alert Low
Analog_01	Capture Enable	1.000	0.000	1.000	1.000	0.000
Analog_02	Capture Enable	1.000	0.000	1.000	1.000	0.000
Analog_03	Capture Enable	1.000	0.000	1.000	1.000	0.000
Analog_04	Capture Enable	1.000	0.000	1.000	1.000	0.000

### 10.2 Setting Alert Values


Once auto calibration is completed, the upper/lower limit and start zero will be filled automatically.

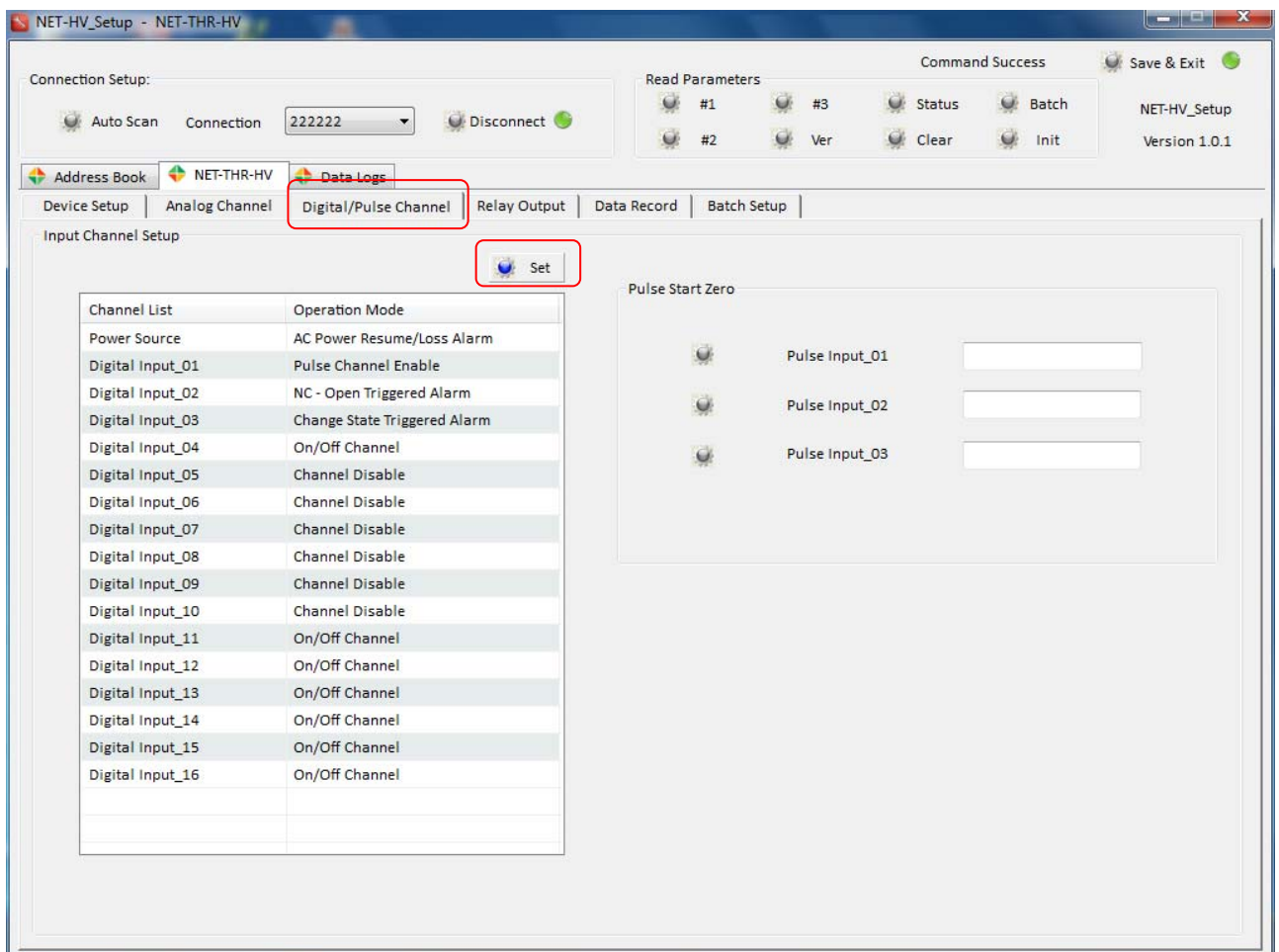
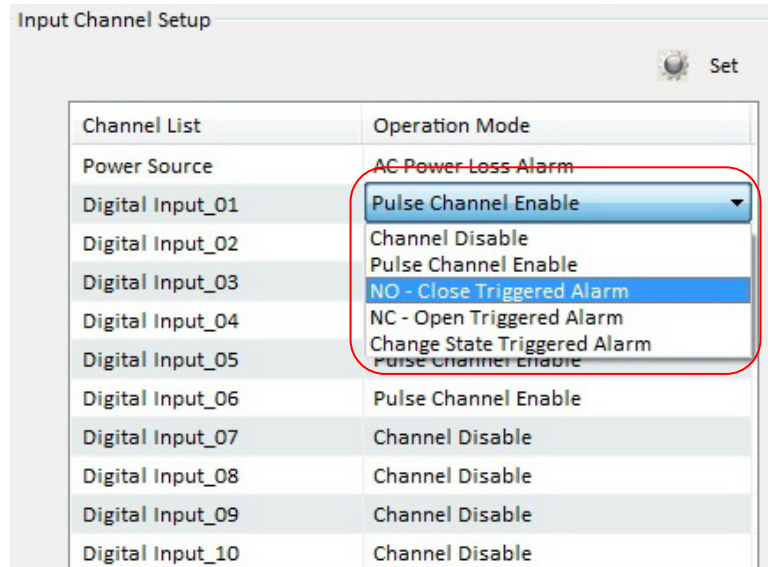
- In the above case, “Upper Limit” is configured to 69.61 by Auto Calibration.
- Enter the Alert High and Alert Low values, and click  button
- When humidity is higher than 60% or lower than 30%, alarm will trigger data upload via SMS or GPRS.



### 11. Digital Channel Setup



It is used to setup the digital or pulse channel and associated alarm properties.

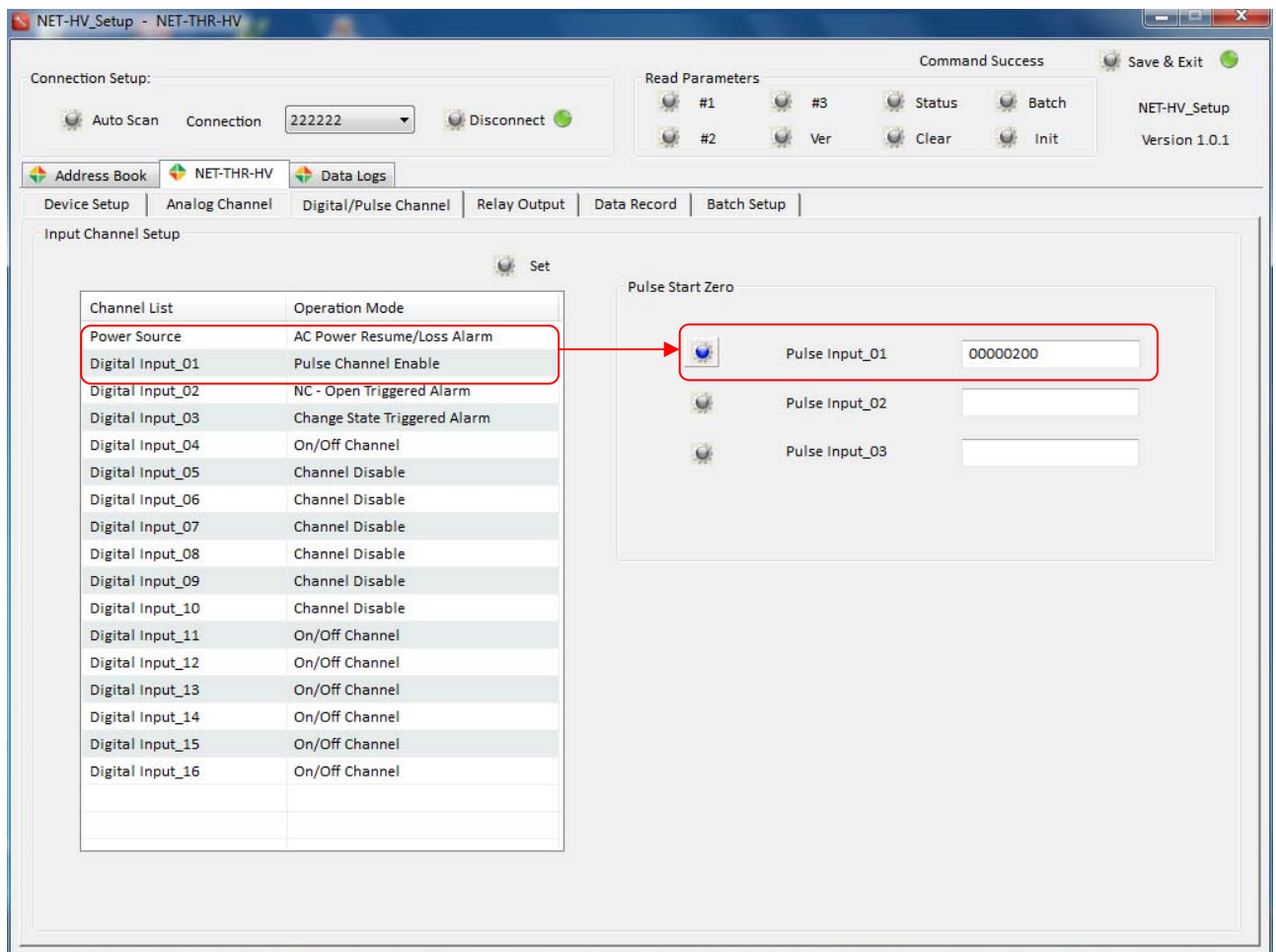
- a) Select the option and modify the parameters
- b) When All Digital Input channels are configured, click  button to confirm the settings.



## 12. Pulse Channel Setup

It is used to setup the pulse channel properties.

- a) Select "Pulse Channel Enable"
- b) Click  Set button to enable the Pulse Channel
- c) Enter the Start Zero Value of Pulse Channel
- d) Click  Set button to enable the start value

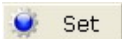


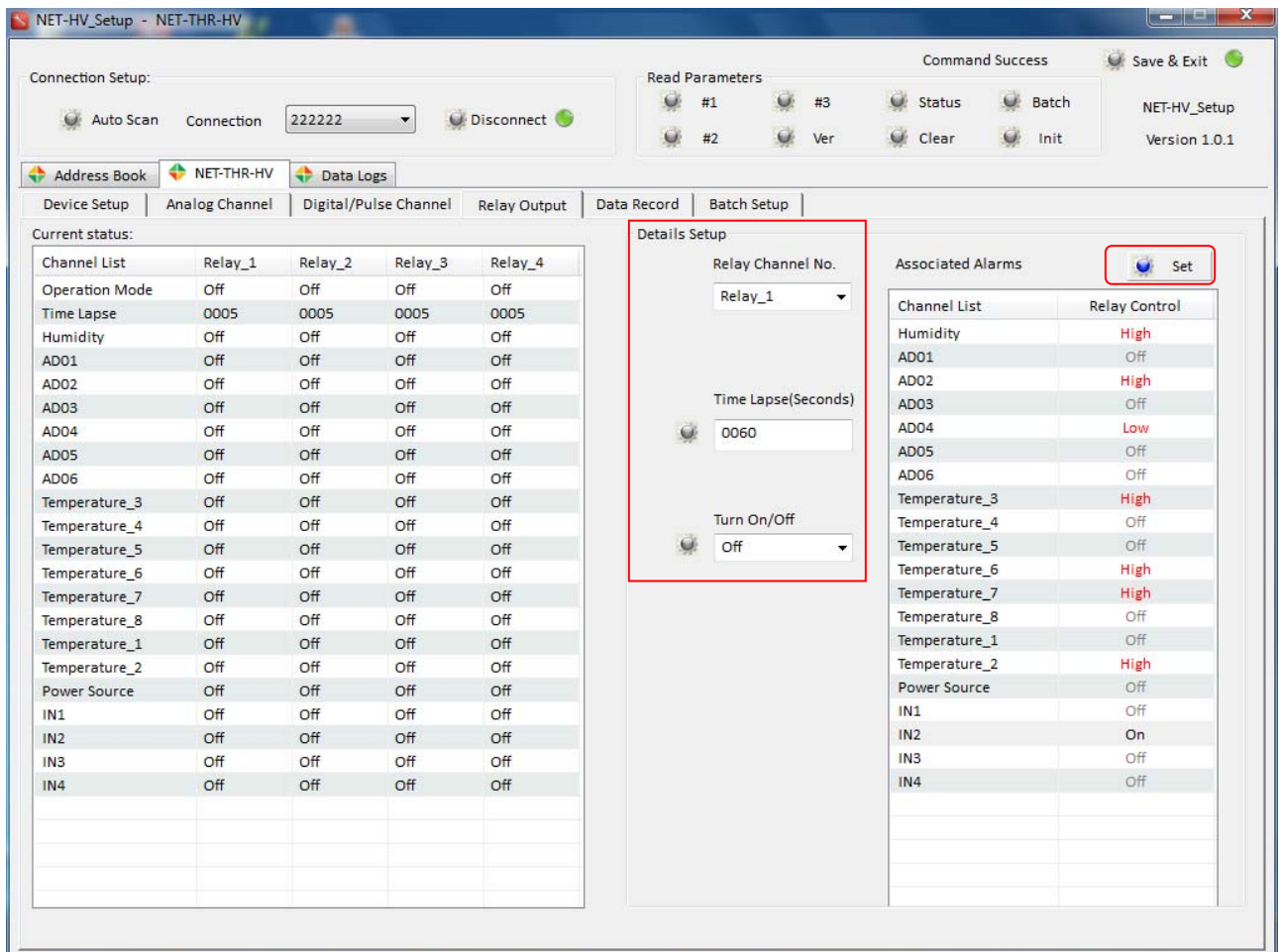
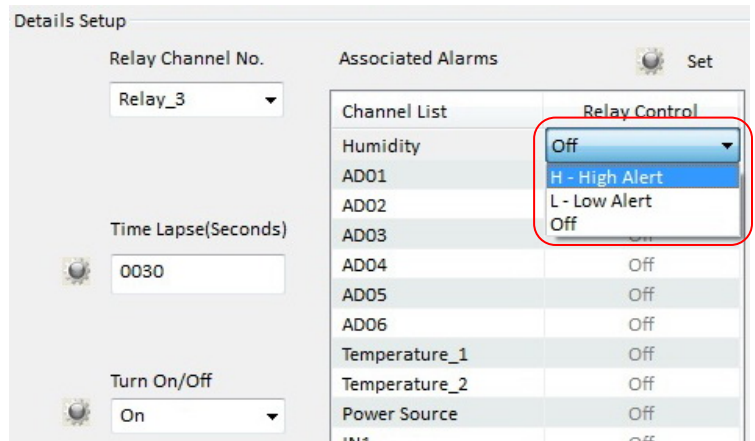
Pulse Start Zero setting is only necessary when the channel is configured as Pulse Channel.

For detail of each command and its parameters, please refer to NET-THR-HV Technical Manual.

### 13. Relay Output Setup

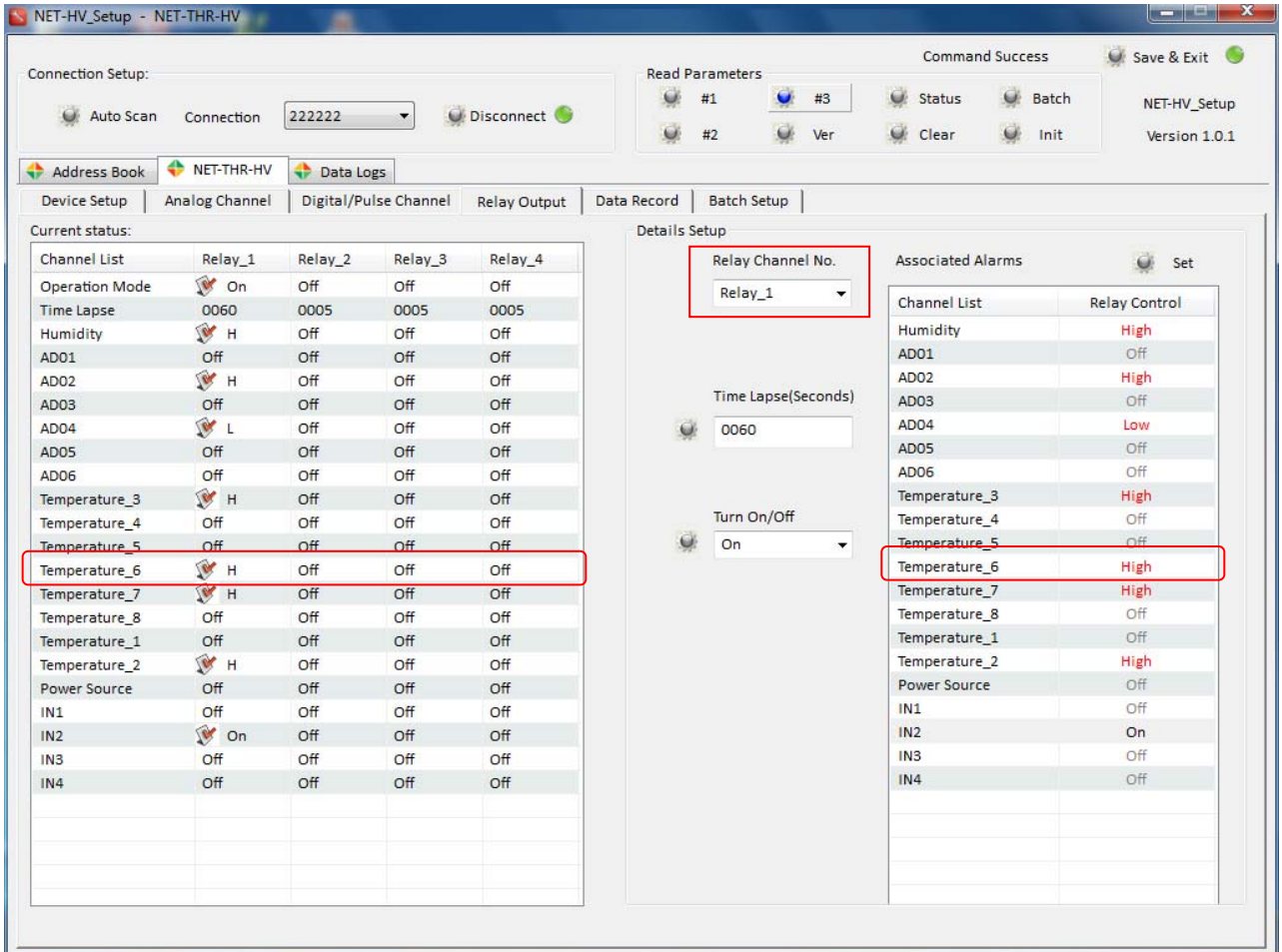
It is used to setup the relay output and associated alarm properties.

- a) Select the Relay Channel
- b) Configure its time lapse (0~9999 seconds)
- c) [Turn On] to enable the Relay Control triggered by Alarm
- d) Select the associated alarm channels
- e) Select “High Alert” or “Low Alert”  
to activate the relay control
- f) Click  button to confirm



The configuration saved will be displayed on the [Current Status].

[Current Status] displays the setup currently configured in the device.



For example:

When the Relay\_1 is selected and associated alarm for Temperature 06 is [High], the relay 1 will be turned on when Temperature 06 alert high level alarm is triggered.

Since Time Lapse is 60, the relay 1 will then be reset to Off after 60 seconds.

For detail of each command and its parameters, please refer to NET-THR-HV Technical Manual.

#### 14. How NET-THR-HV response on alarm?

Alarm is triggered when:

- 1) Digital Input state is changed
- 2) AD Input reading is higher or lower than user preset alert values.

Alarm Data with [STH] header will be uploaded via Ethernet to Server once alarm is triggered.

Note: Live Data with [STA] header is the normal data uploaded on schedule.

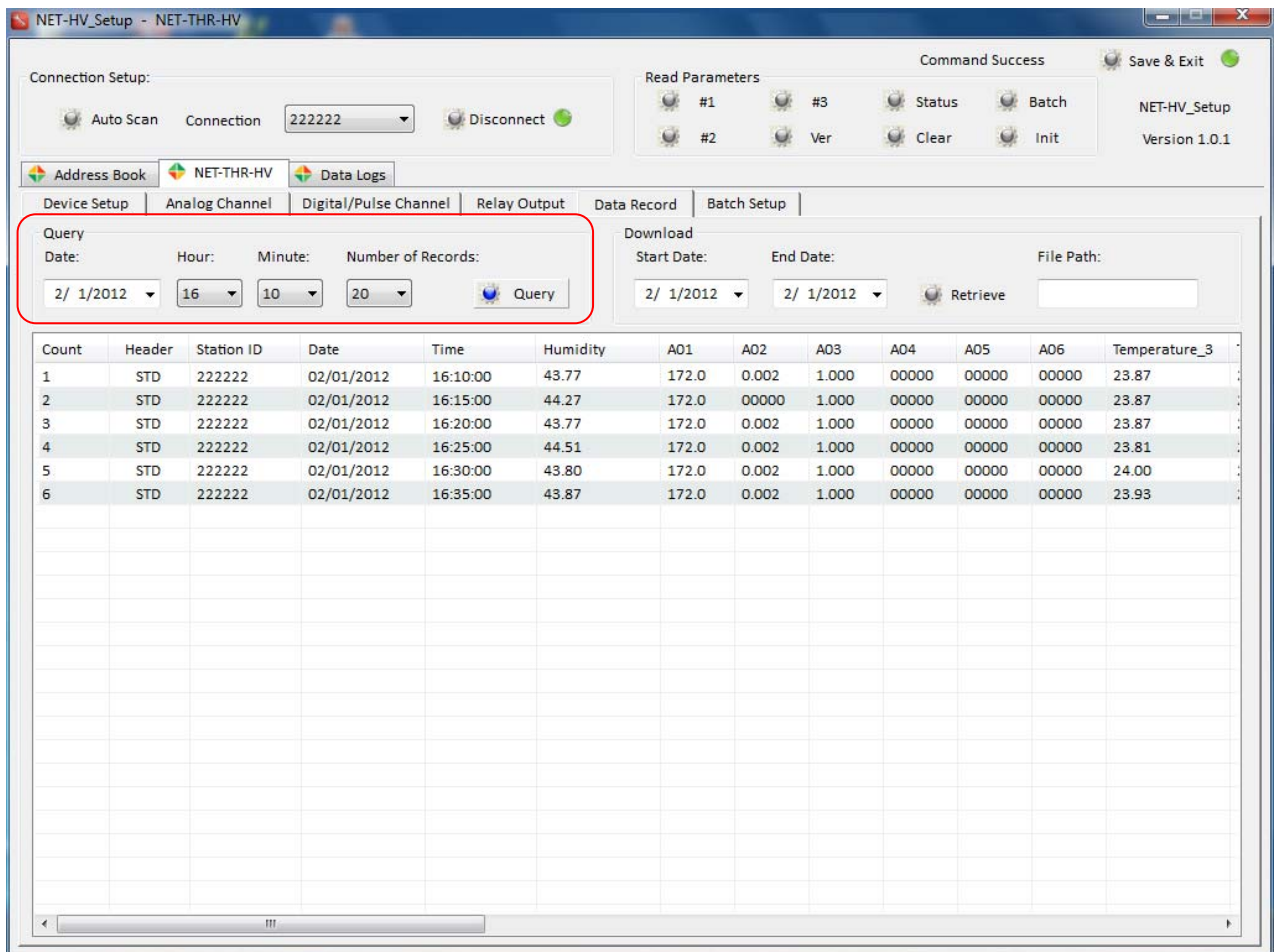
### 15. Logged Data

#### A) Logged Data Display

It is used to display the captured data stored in the internal memory of Data Logger.

- Max. 60000 records can be logged into its internal 4MB memory
- Max. 99 records can be retrieved in each packet (via GRPS Data and Ethernet)
- Max. 1 record can be retrieved in each packet (via SMS)
- Each record stores the status or captured values of following channels:
  - Device ID, Date, Time, Temperature 1 ~ 8, and Humidity
  - 6 x Analog Channels, 10 x Digital Inputs, 3 x Pulse Inputs, 1 x Power Input
  - 4 x Relay Output

- a) Select the starting date time and number of records to be retrieved and displayed.
- b) Only max. 99 records can be displayed each time
- c) Click [Query] to download the data for display with header [STD]



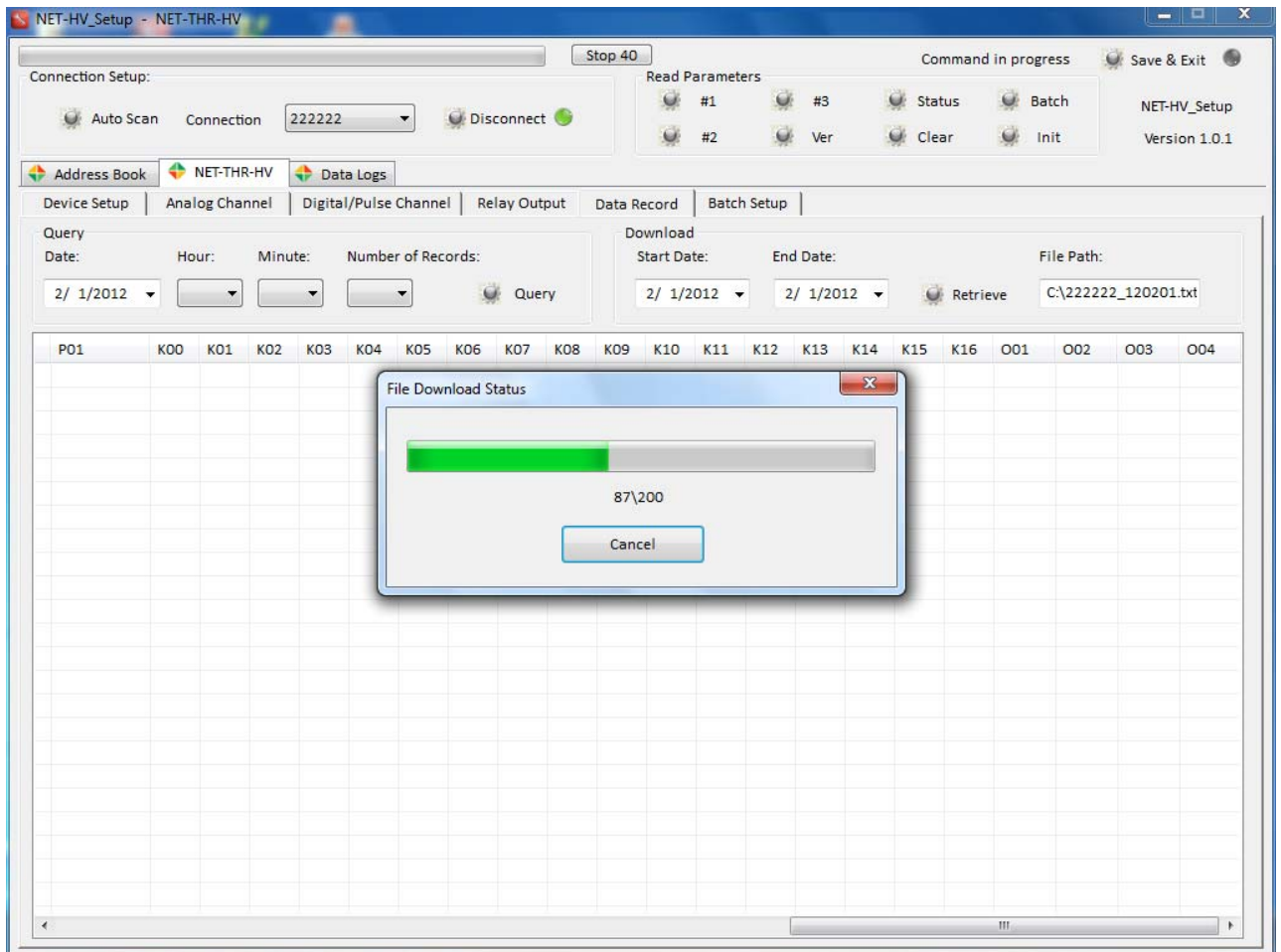
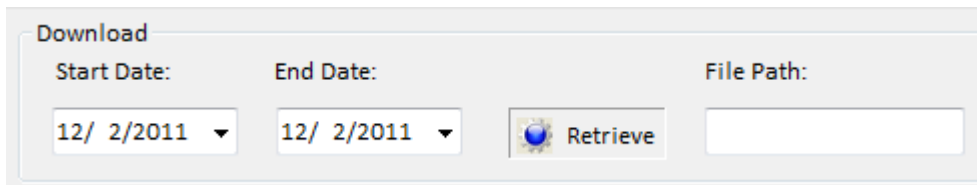


- 1) This historical data is logged in the internal memory of Data Logger.
- 2) The logging interval can be configured in the device setup of Data Logger.
- 3) This historical data retrieved from Data Logger will not be stored in the PC but only display.
- 4) "SMS Server" is the software used to retrieve and store the data into server database.

B) Logged Data Export

It is used to retrieve the captured data stored in the internal memory of Data Logger, and saved into a file for analysis.

- Data will be saved in text format.
- Data will be downloaded in days.
- Max. 200 records or 3 days records can be downloaded and saved into file each time.
- More than the limit can be downloaded by several times.

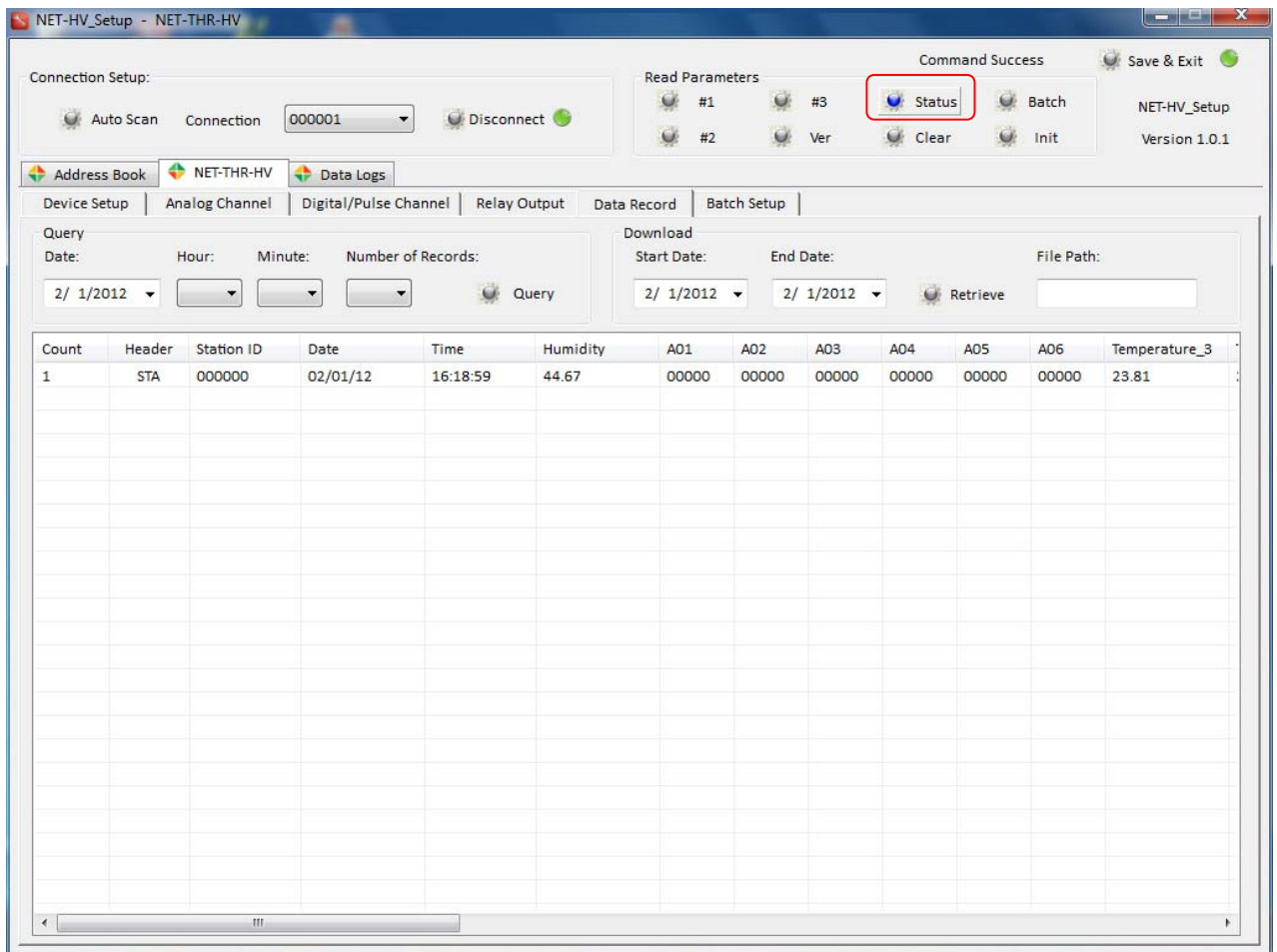


### 16. Live Data

It is used to get the instant data (live data) captured by Data Logger.

- Only the last one record will be retrieved in each packet
- Each record stores the status or captured values of following channels:
  - Device ID, Date, Time
  - Temperature 1 ~ 8, and Humidity
  - 6 x Analog Channels, 10 x Digital Inputs, 3 x Pulse Inputs, 1 x Power Input
  - 4 x Relay Output

Click [Status] to download the live data for display with header [STA]



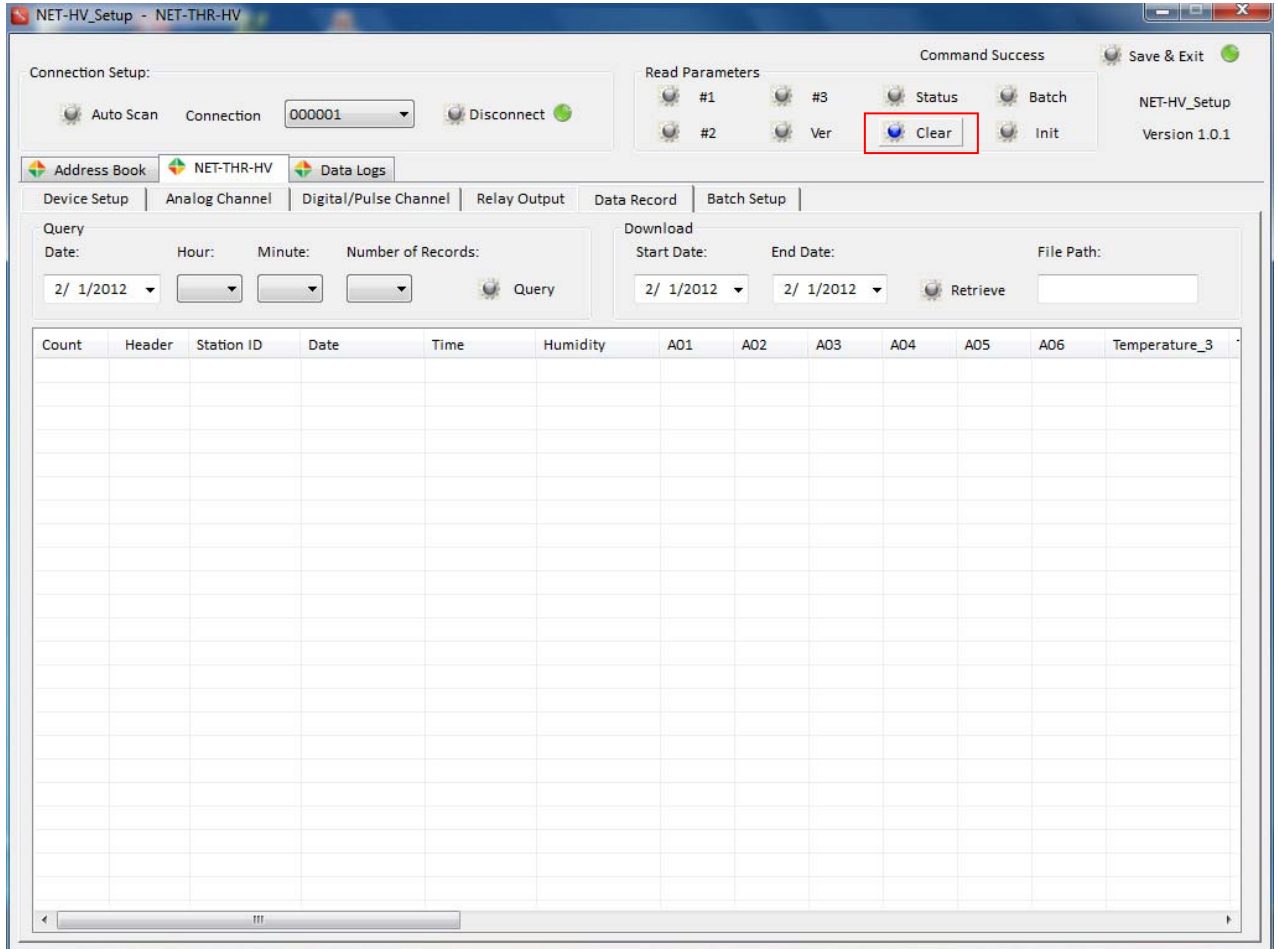
**Notes:**

- 1) The data displayed will be cleared once [Query] or [Status] button is clicked to display the next data record. No data will be saved.
- 2) Click [Clear] also to clear the existing display.

### 17. Clear Reading

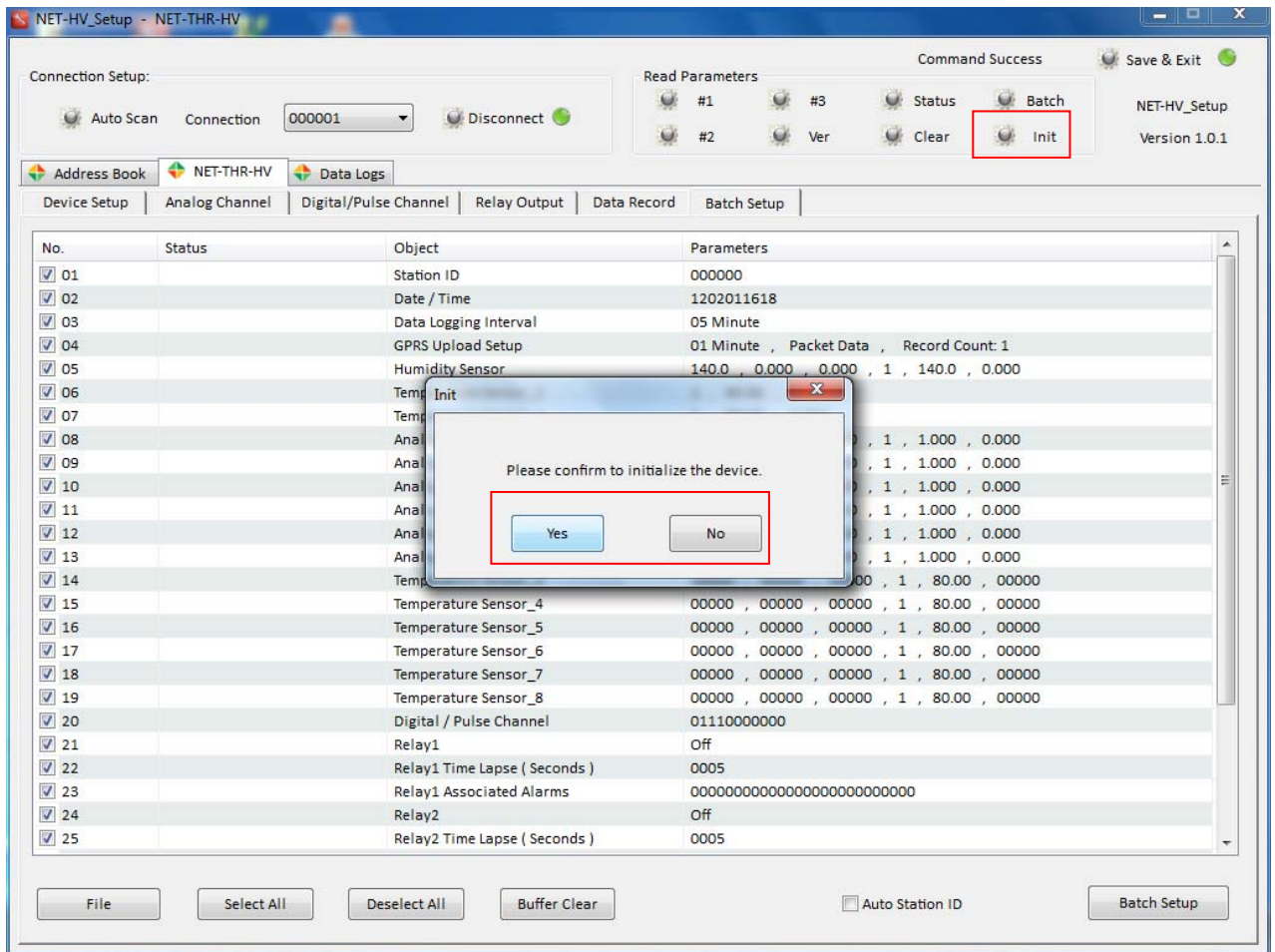
This is to clear the display buffer.

Please be noted that all data display on Setup Software screen will not be saved.



### 18. Device Initialization

This is to reset all the configuration parameters one by one to factory default.



### 19. Password Reset

This is to reset device passwords to factory default.



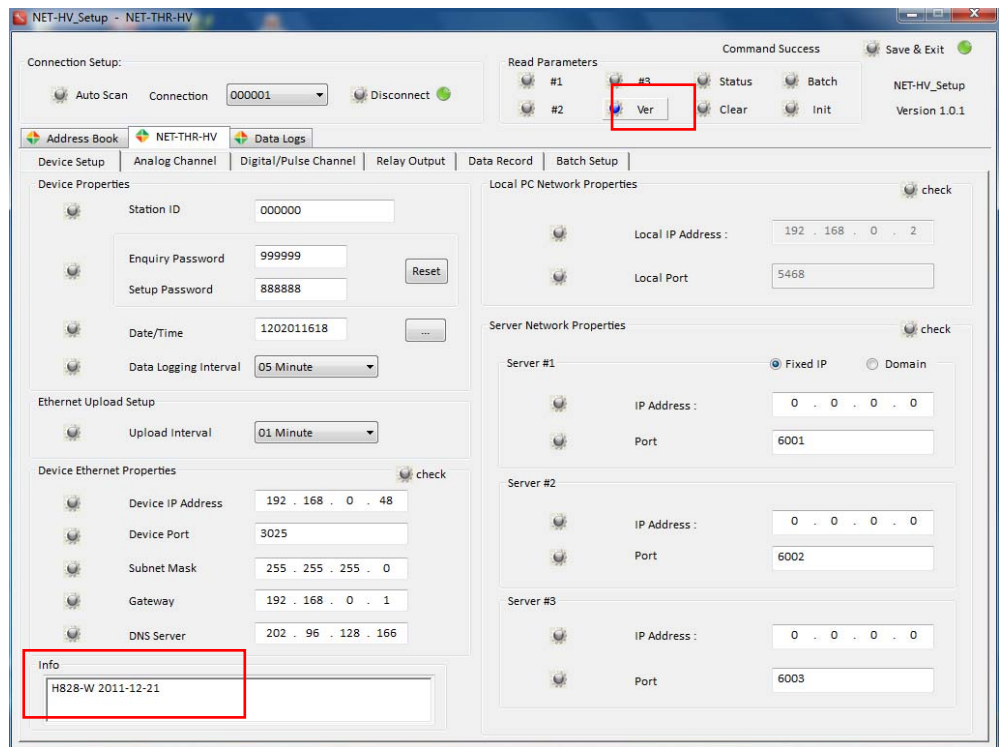
## 20. Reading Parameters

This is to allow users to read the configuration parameters from the data logger for verification.

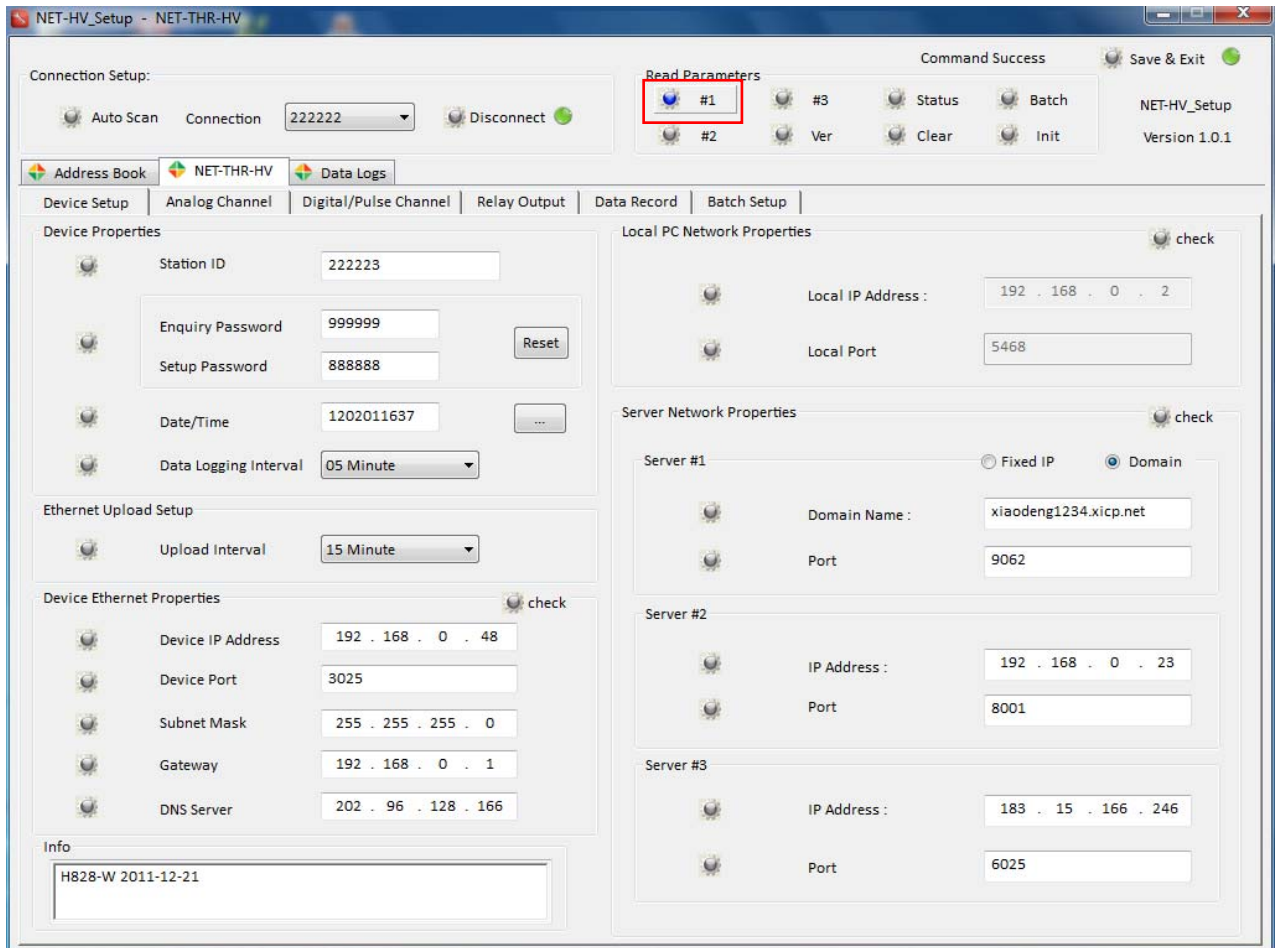
Button [Ver]

Check:

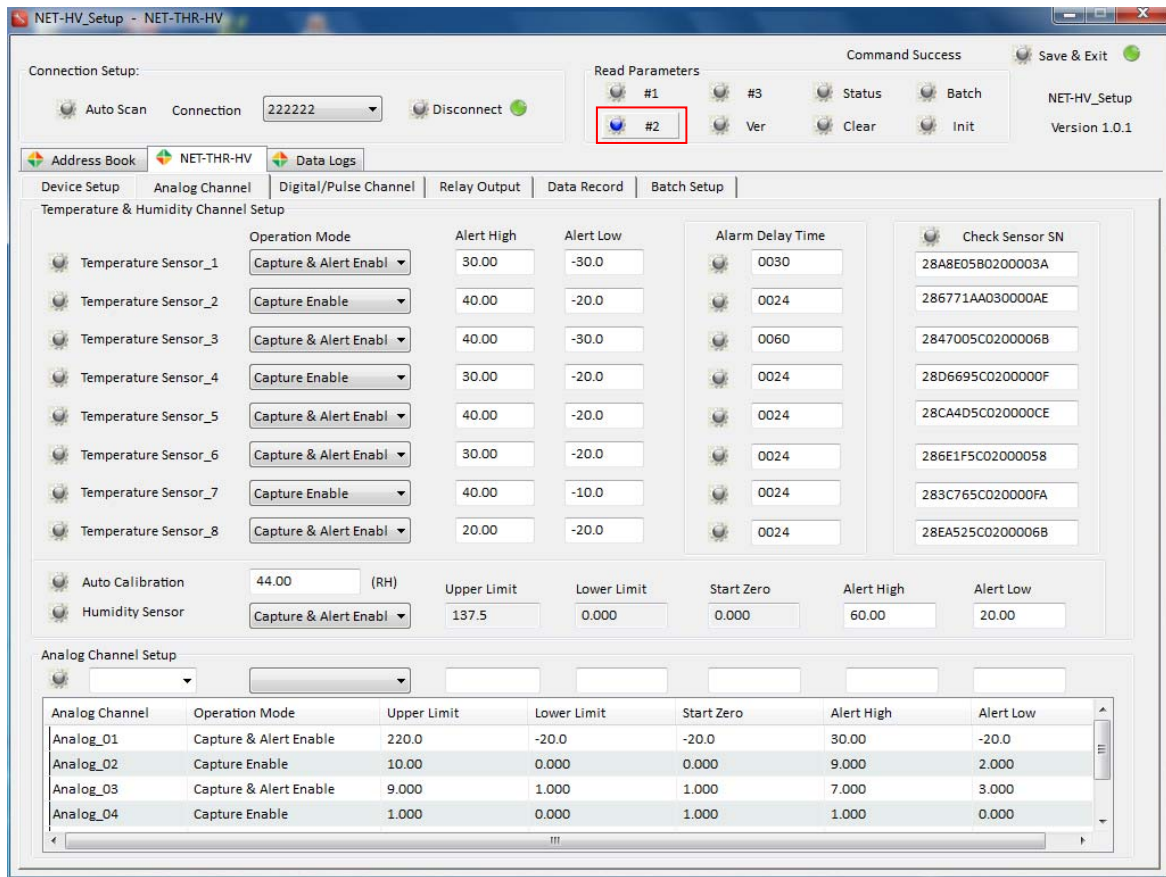
- Firmware Version
- Hardware Version



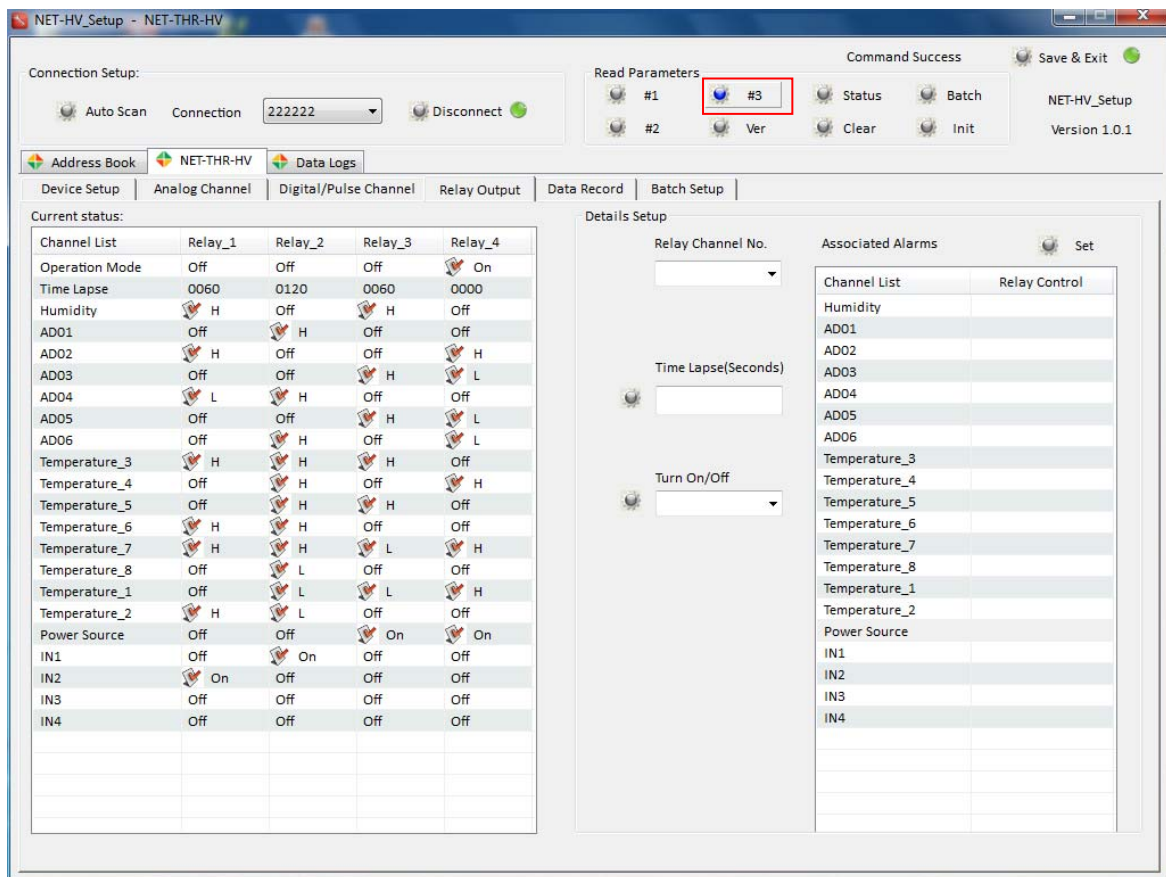
Button [#1] Read the Device Properties



Button [#2] Read the Input Channels and Associated Alarm Properties

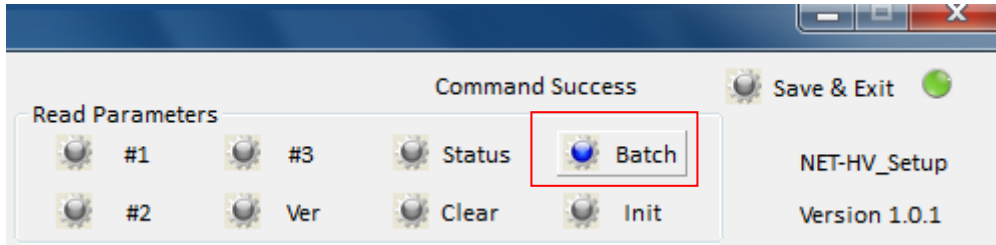


Button [#3] Read the Output Channels and Associated Alarm Properties

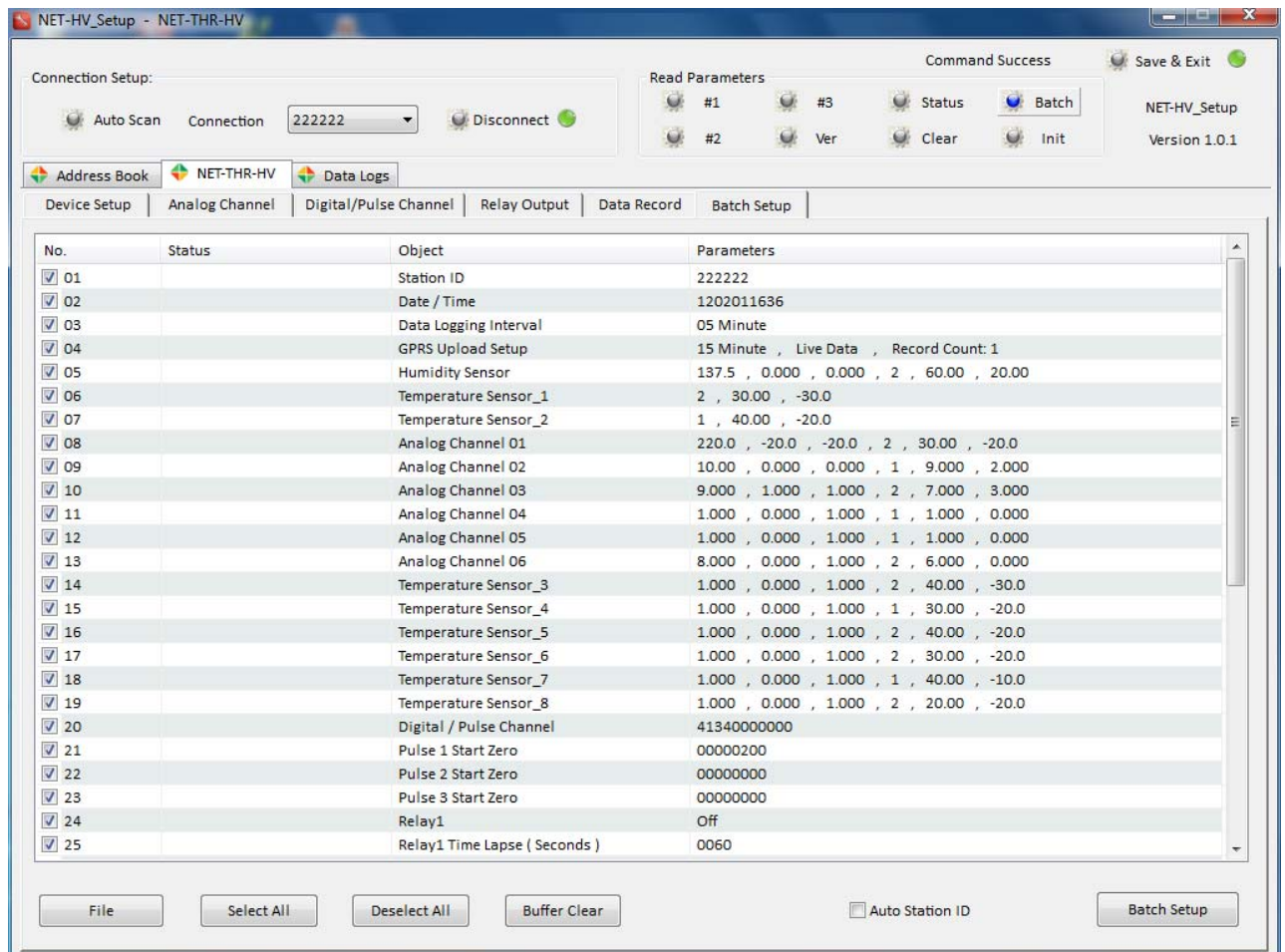


### 21. Save Configuration File

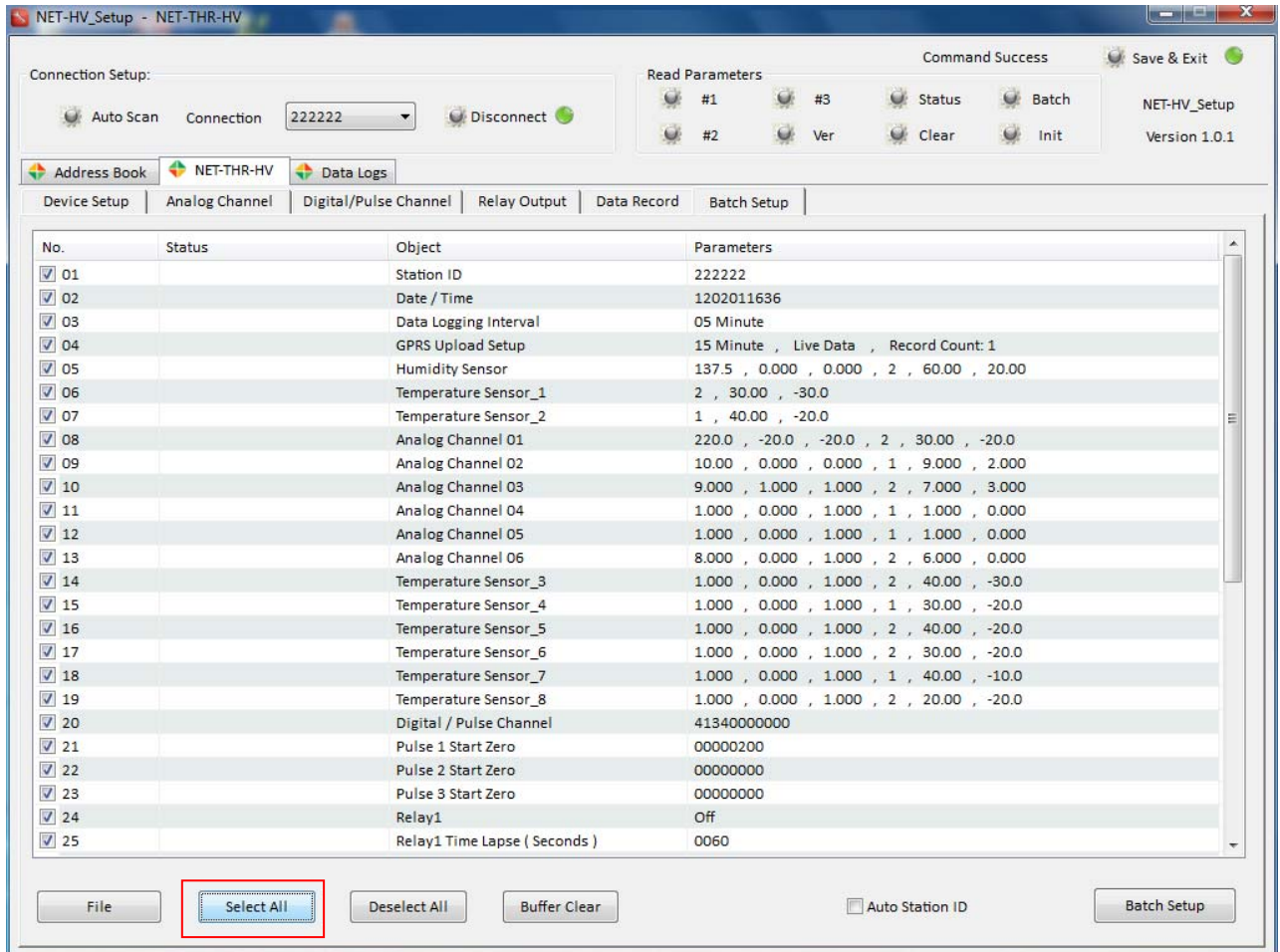
Click [Batch] button, to allow user to read all the parameters from the device connected in one single button.



After completing the setup of each channel and other properties in previous sections, click [Batch] button to retrieve all the parameters from the device.



Click [Select All] to save all the parameters in file



Right click the [File] button, and select "Save Configure File".

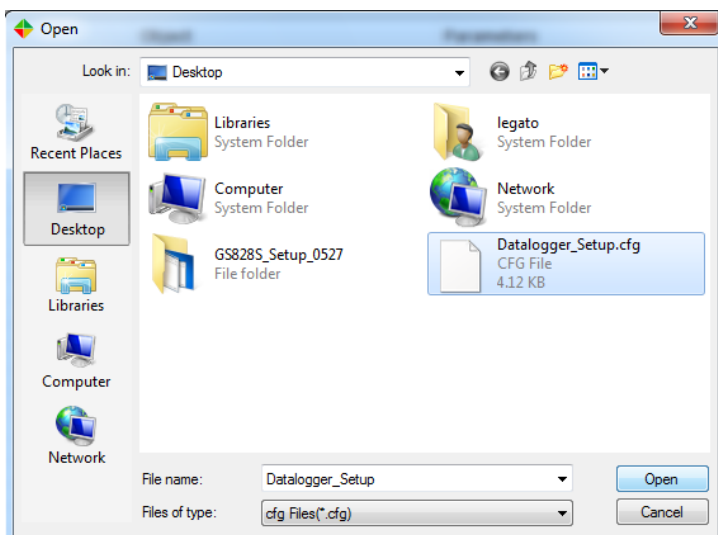
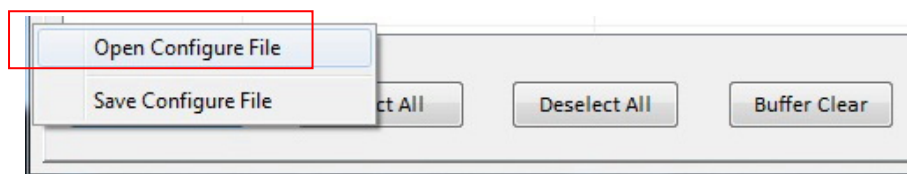
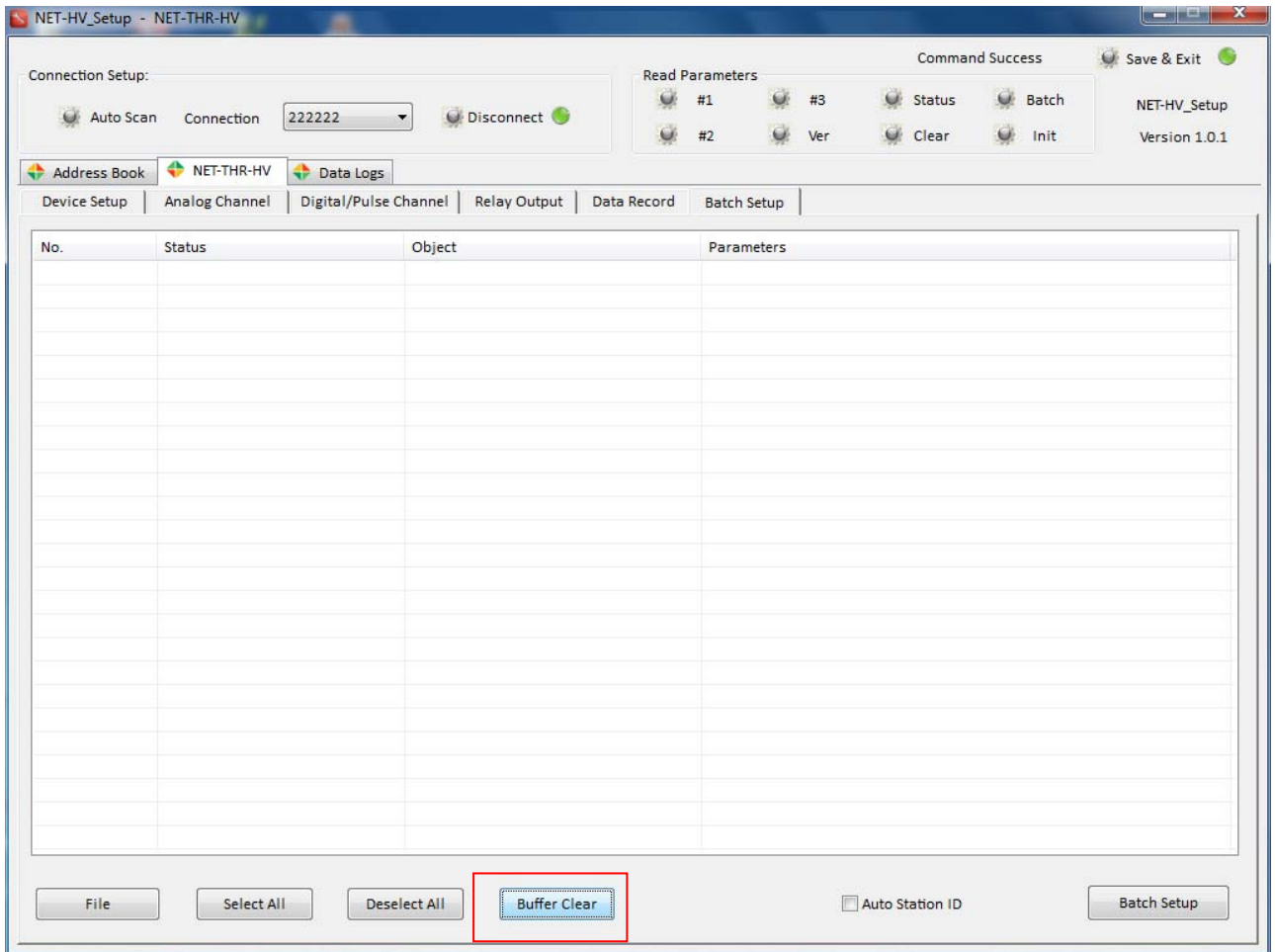


The configuration parameters will be saved in "Datalogger\_Setup.cfg" file.



## 22. Batch Setup

This is to allow user to open the saved configuration file, and setup all the parameters to the device connected in one single button.



Click [Buffer Clear] button

Click [File] button

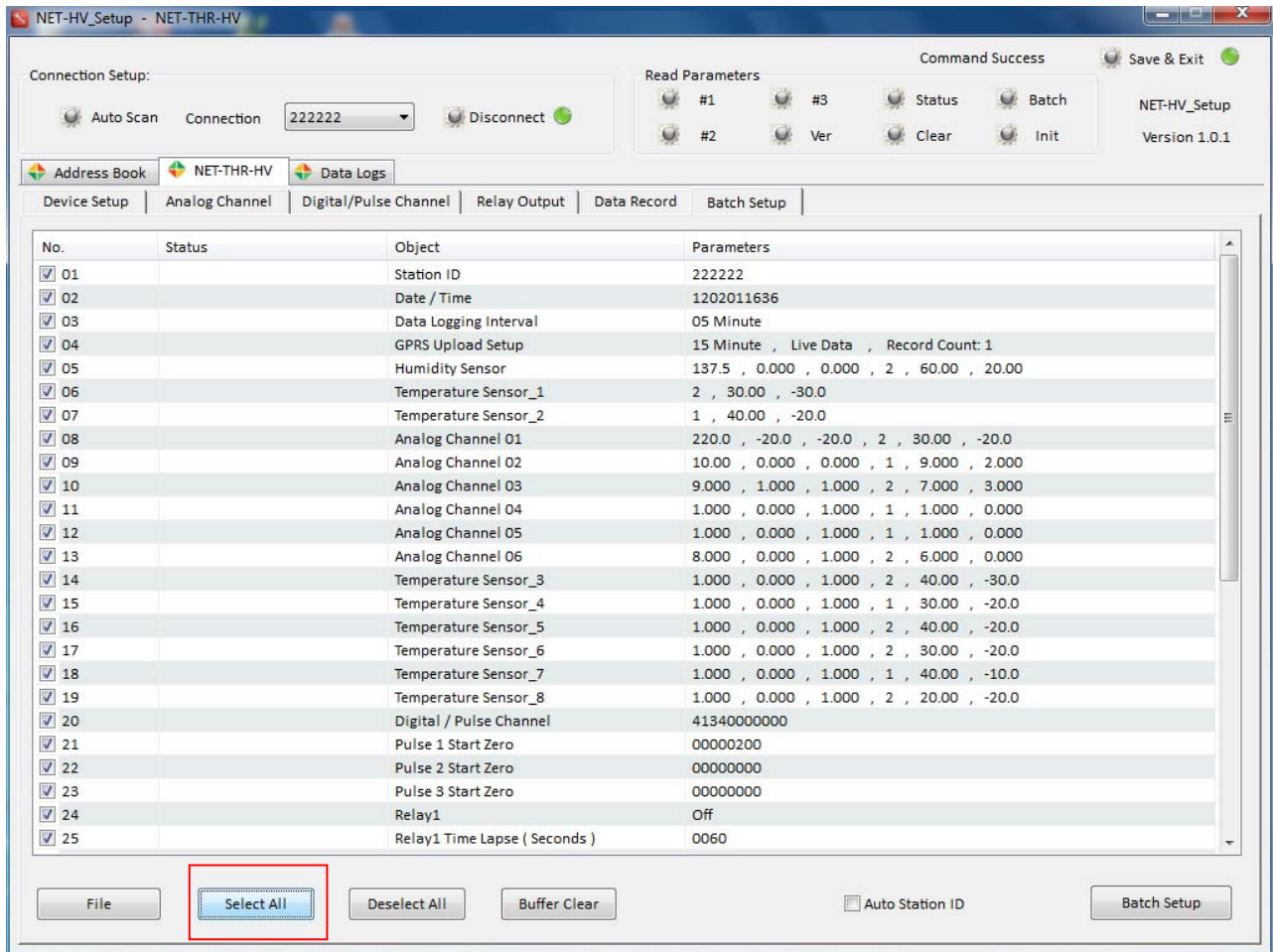
Select "Open Configuration File"

Select the file saved before

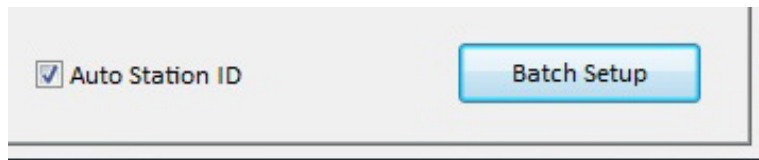
All parameters will be retrieved and displayed as below.

Click the parameters to be configured in batch, or [Select All] for all parameters.

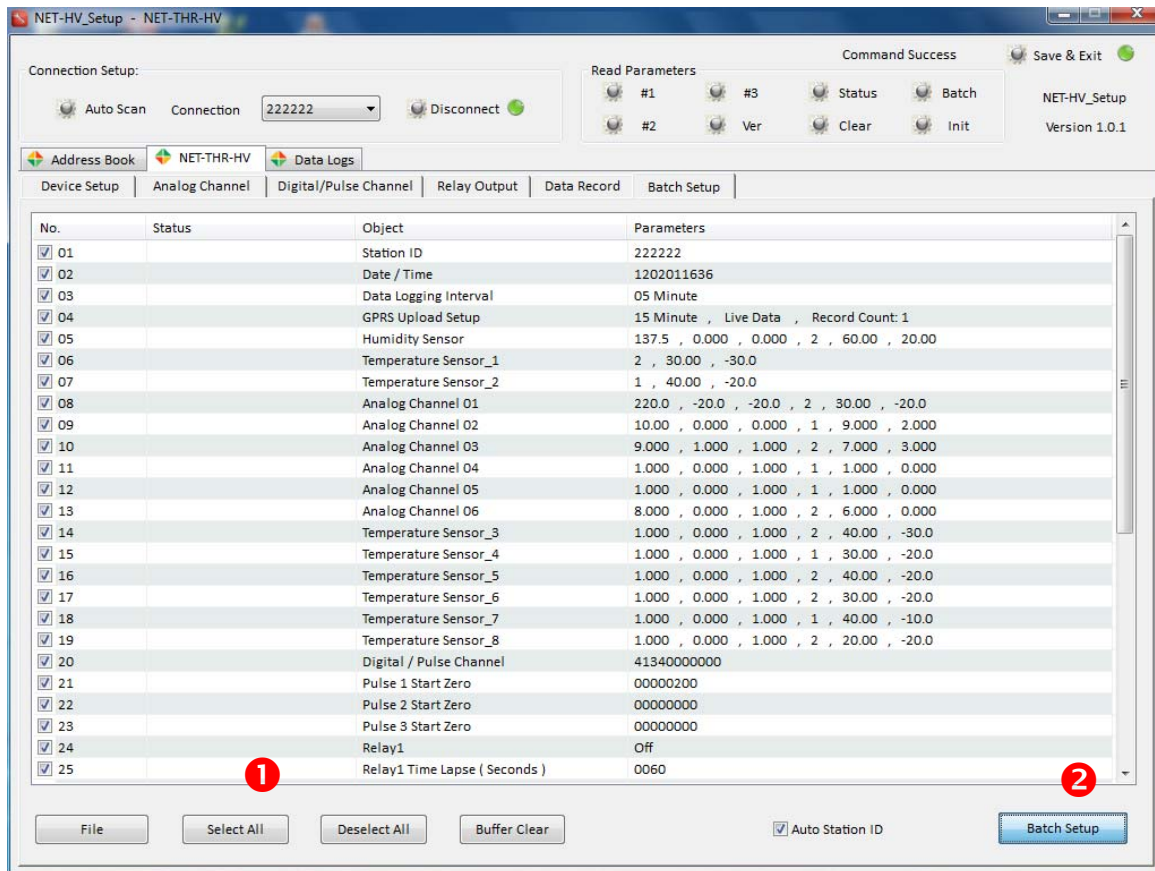
Click [Select All] will set all the parameters in the file to the device



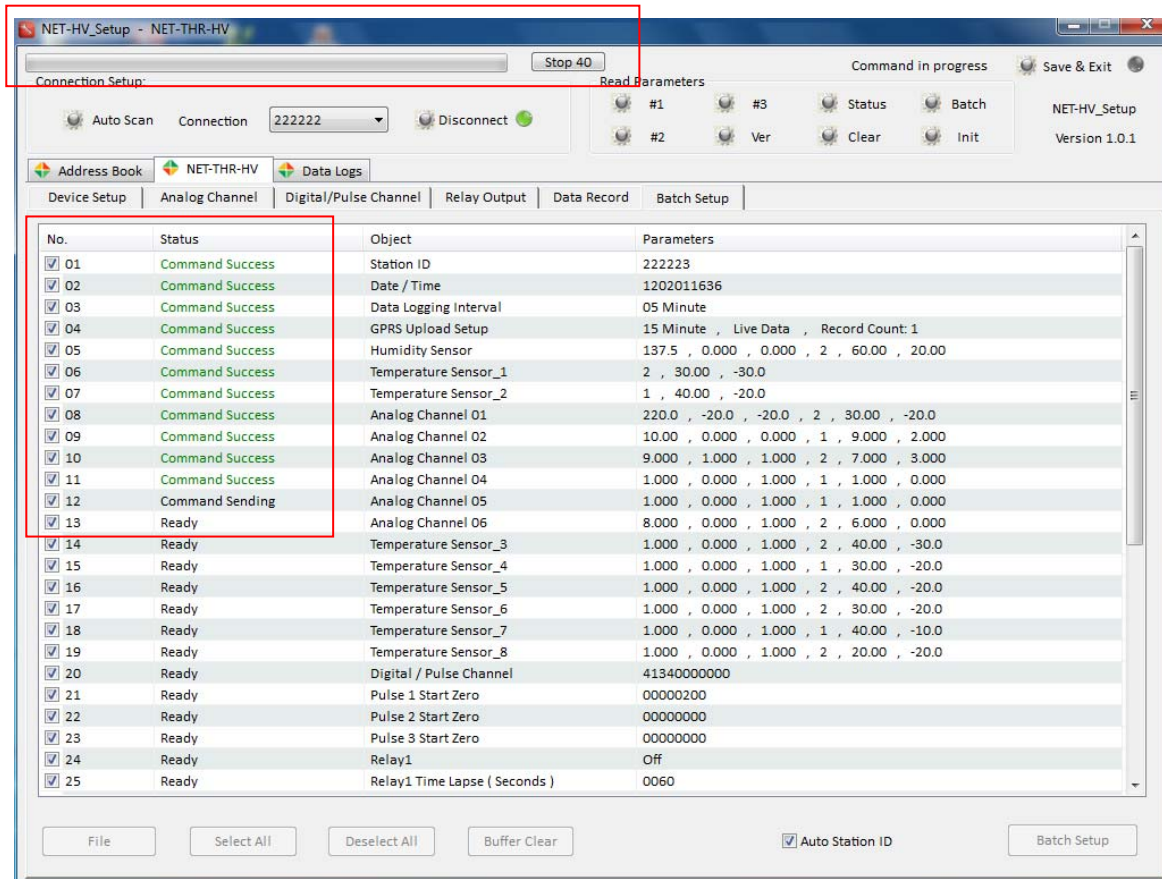
Click [Auto Station ID] will automatically increase the station ID in sequence when batch setting up a number of NET Data Loggers



Click [Select All], and then [Batch Setup]. It will start to setup the selected parameters automatically.

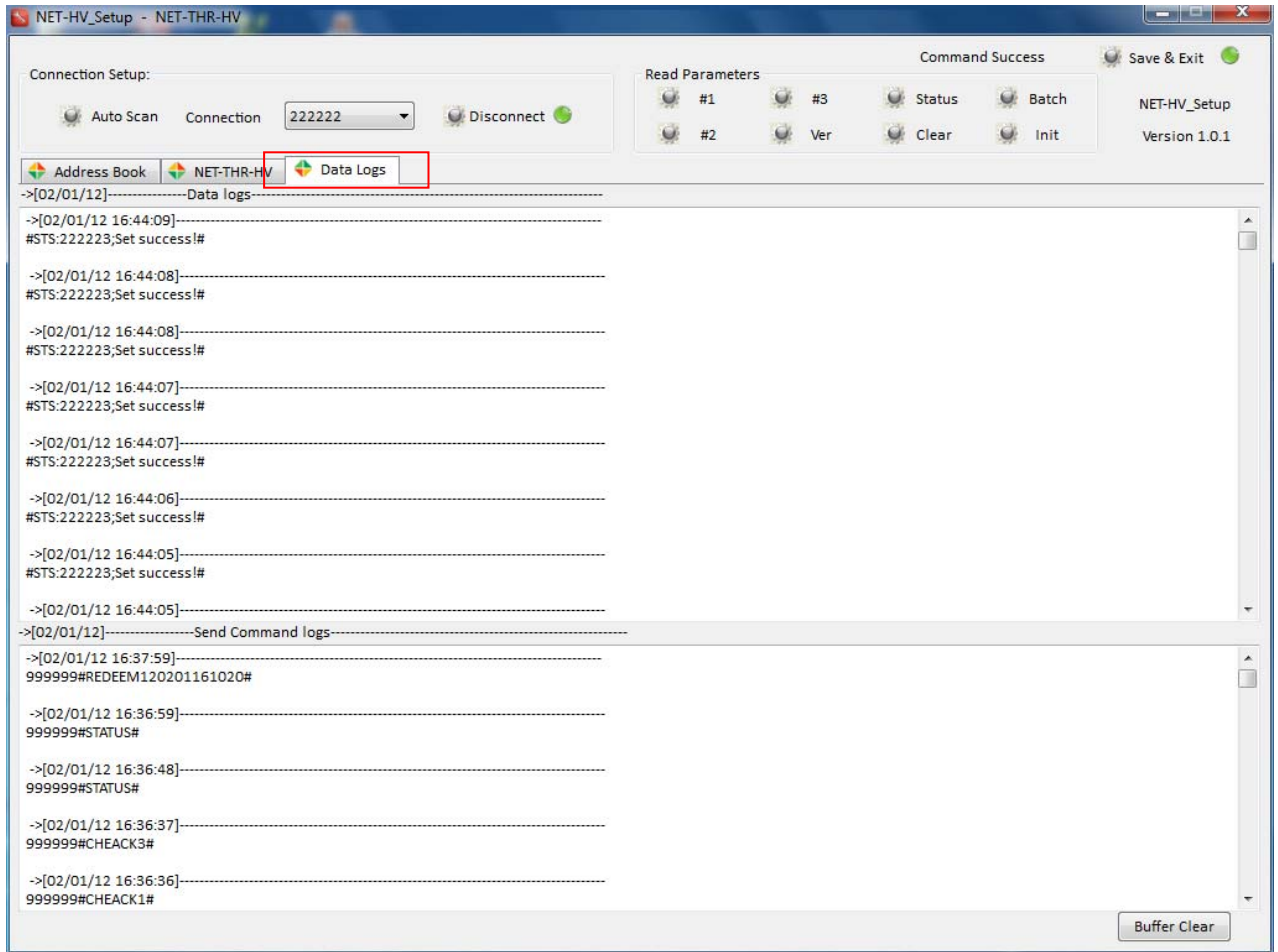


Each parameter will be configured into the device one by one, and status will be displayed.




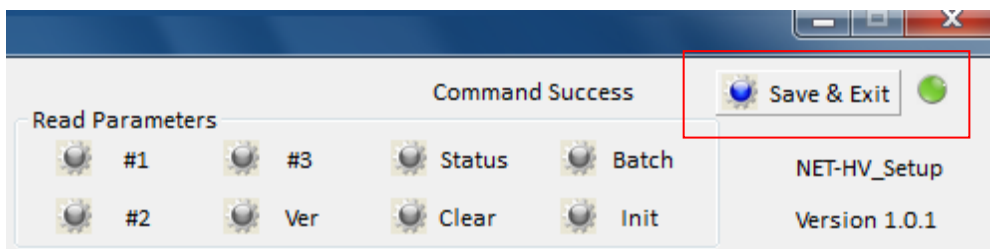
### 23. Data Logs

This is to keep track of the action, response and command operation during the setup.



### 24. Save & Exit

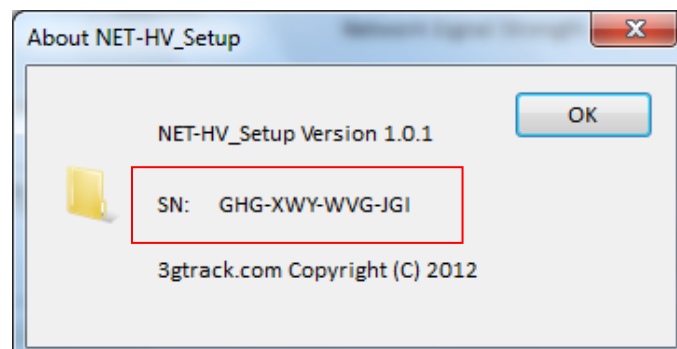
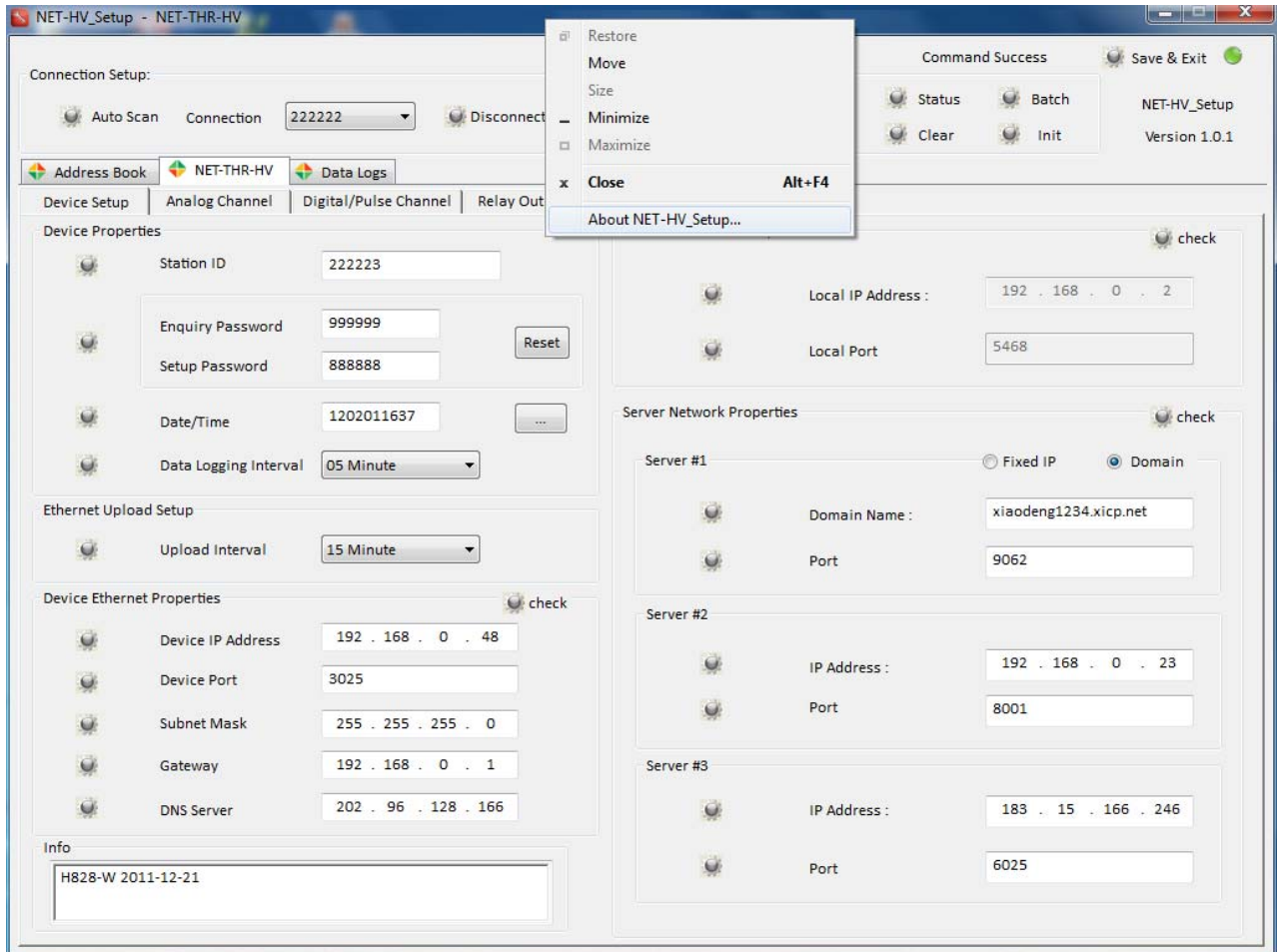
 This step is very important to make sure that all parameters are configured and saved through the network properly.



## 25. Technical Support

Right Click the menu tool bar, and select [About NET-HV\_Setup].

Always report the Product Key SN when contact with our technical support.



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