

WiseFind, WiseWay GUI & WiseInsight

UPS Software User Manual



INTRODUCTION

Thank you for choosing N1 Critical Technologies for your Uninterruptible Power Supply needs! We hope our Lithium-Ion UPS products serve you well. If they don't, remember that we have a limited lifetime warranty on electronic components and a 10-year battery warranty. For service needs, please contact us at 877-226-3311. For sales, please contact us at 855-208-0011.

Please save this manual for future reference.



WARNING

This software is compatible with the following OS: Microsoft Windows XP, Microsoft Windows 7, Microsoft Windows 8, Microsoft Windows Server 2003, Microsoft Windows Server 2008 R2, Microsoft Windows Server 2012. Use with other operating systems may cause the software to become unstable.

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For Your Records

It is recommended you keep a record of your serial numbers, IP addresses and the location description of your UPS devices. For your convenience we've included a table to keep your notes:

Unit Description	Model #	UPS Serial #	SNMP Serial #	SNMP MAC #
Physical Location:				

Unit Description	Model #	UPS Serial #	SNMP Serial #	SNMP MAC #
Physical Location:				

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Physical Location:				

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Unit Description	Model #	UPS Serial #	SNMP Serial #	SNMP MAC #
Physical Location:				

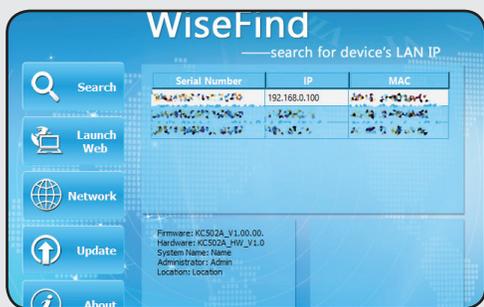
Unit Description	Model #	UPS Serial #	SNMP Serial #	SNMP MAC #
Physical Location:				

Unit Description	Model #	UPS Serial #	SNMP Serial #	SNMP MAC #
Physical Location:				

Terminology Note

Abbreviation	Description
SNMP	Simple Network Management Protocol
HTTP	HyperText Transfer Protocol
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name System
MAC Address	Media Access Control Address

QUICK START GUIDE



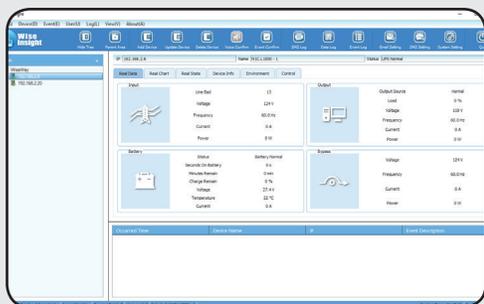
1. WiseFind (UPS ID)

WiseFind is used to identify N1C UPS products on your network. UPS devices must be connected to the network with Ethernet cable via the included SNMP card.



2. WiseFind (UPS IP Assign)

Once found, use WiseFind to assign an IP address to your UPS. The default IP is 192.168.0.100. This will need to be changed to use WiseInsight software to monitor and control your UPS.



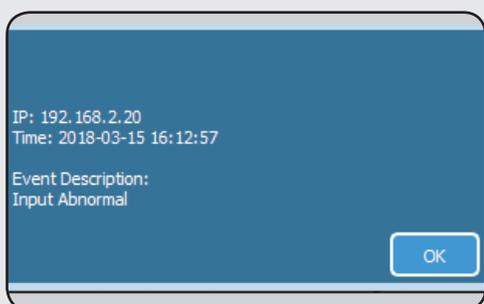
3. WiseWay (UPS GUI)

Log in to the UPS GUI (called WiseWay) to monitor and remotely control functions of your UPS. View real-time data, export event logs, remote shutdown and restart, program alerts, set planned tasks, add users, and more. (*There is no program installer for WiseWay.)



4. WiseInsight (UPS Monitoring)

Add multiple UPS devices to WiseInsight by IP address (including some other brands). Here, you can monitor statistical data about each network-connected UPS, such as input and output voltage, battery temperature, power interruptions, and more.



5. WiseInsight (UPS Map & Alerts)

Set alerts in WiseInsight to receive emails, screen pop-ups and audible alarms when there is a power event that affects your UPS system. Use WiseInsight “map” your UPS network, find problems, and launch the UPS WiseWay GUI to control problem units, including shutdown and restart.

COMPONENTS

There are three critical pieces of software needed to monitor and control aspects of your N1C UPS systems, including:

- WiseFind
- WiseWay
- WiseInsight

WiseFind

WiseFind is designed for finding and modifying the network information of the N1C UPS systems attached to your network via our standard SNMP cards. **Use it first to find** the N1C UPS systems you have on your network and **change** the default IP Address (192.168.0.100) to a unique, static IP that is usable on your network, or choose to have the IP assigned by DHCP. You can also change the Gateway and Subnet Mask of the connection, if necessary.

WiseFind will also let you view the Serial Number and MAC Address of your SNMP Card. If more than one UPS is installed, these are important in identifying the device and its physical location on your network. Use the “For Your Records” table on the previous page to make a note of this information, which is useful later when setting up the WiseInsight monitoring software. SNMP card serial numbers and MAC addresses are found on stickers located on the card, next to the network port.



SNMP Serial & MAC Add.

WiseWay

WiseFind also allows access to the UPS unit's SNMP Card Graphical User Interface (GUI), which is called WiseWay. This software **does not** need to be installed on your PC. Within WiseFind, double-click a device in your list, or highlight a device and click “launch web.” Your default web browser will open to the login screen. Once logged in, you can do many **monitoring and control** functions of that single UPS. To get to the GUI of a different UPS, navigate back to the WiseFind application and double-click the new device you wish to view and control. You can also open WiseWay through the WiseInsight software. If you know the IP address of the UPS system you wish to monitor, you can enter it manually into your browser's address bar and log in. WiseWay is operable on PC and MAC computers.

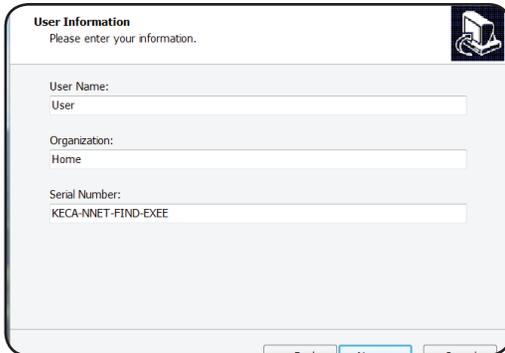
WiseInsight

WiseInsight is the monitoring software for use with one or more network-connected N1C UPS devices. If you only have one or a few UPS systems, you may not need to use WiseInsight. If you have more than one it is a very useful program. It may also monitor some other brands of UPS systems on the network if you know their IP address. The software:

- Manages users who can monitor and control the UPS devices.
- Collects and saves real-time and historical data which can be exported to a database.
- Sends alerts by email, audible tones and pop-up dialog when there are system alarm (SMS messaging not-yet compatible with N1C devices. We hope to add this functionality in the future).
- Manages the devices by area so you know where devices are located if problems occur.
- Supports up to 1,000 connected UPS devices on the network.

INSTRUCTIONS - WISEFIND

WiseFind



User Information
Please enter your information.

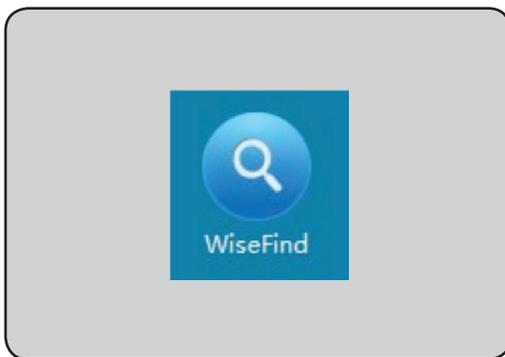
User Name:
User

Organization:
Home

Serial Number:
KECA-NNET-FIND-EXEE

1. Install

Open the WiseFind_Setup.exe program to install the software. Follow the on-screen instructions provided by the setup wizard. On the User Information Screen, you may change the name of the user and organization. **DO NOT CHANGE the default software serial number: KECA-NNET-FIND-EXEE**



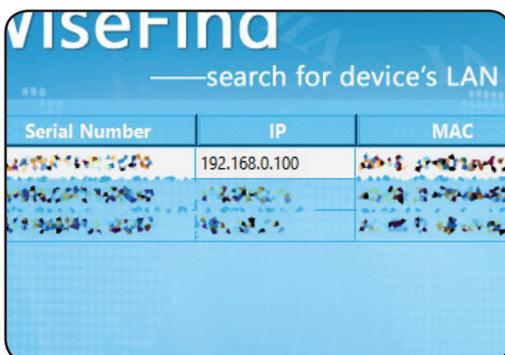
2. Launching Program

After installation, WiseFind can be opened by double-clicking the program icon.



3. Main Interface

The main WiseFind screen includes capabilities to search for UPS devices, launch the WiseWay GUI interface on your browser, assign and change network information for connected UPS devices (including IP addresses for connected devices), and updating firmware.

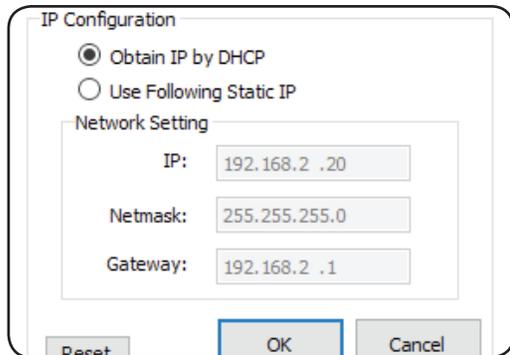


4. Search

After N1C UPS devices are attached to your network and switched on, perform a search by clicking the search button. The initial IP of the device(s) should read 192.168.0.100. You will also see the serial number and MAC address for each N1C device on your network. The software will search every 20 seconds automatically.

INSTRUCTIONS - WISEFIND

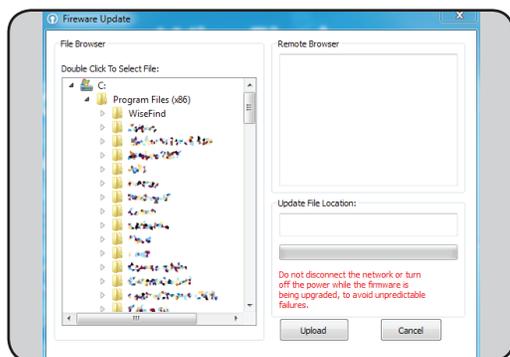
WiseFind



5. Change IP of Connected UPS

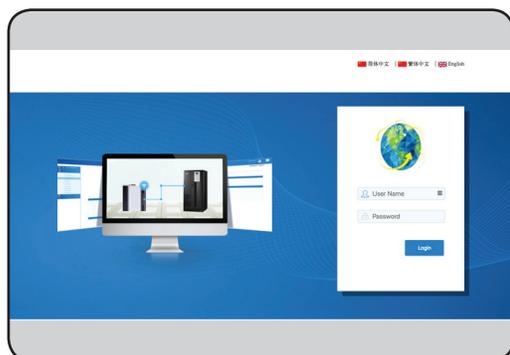
WiseWay and WiseInsight software will not work with the default IP address. Highlight a UPS from the list, then click the Network button to re-assign its IP address to a static IP or obtain one by DHCP. You may also change the Subnet Mask and Gateway settings of static IP addresses, if necessary. If the network environment cannot assign IP by DHCP, please use a unique static IP.

It is important to make note of the IP address for UPS systems (identified by the SNMP Serial Number and MAC Address) and their physical location in your facility. This will help when using the WiseInsight UPS monitoring software, which allows you to “map” locations of devices and rename them to something more memorable.



6. Firmware Update

Firmware can be updated by clicking the button and navigating to the file on your PC. Firmware updates are available on our website, lithium-ion-ups.com.



7. WiseWay (UPS GUI)

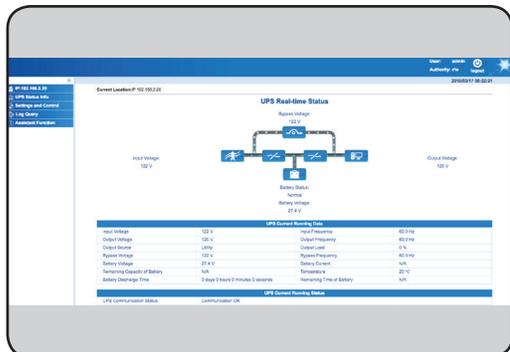
To launch WiseWay, the graphical user interface of the N1C UPS SNMP Card, double click a device from the list in WiseFind, or highlight a device and click “Launch Web.” The GUI will open in your default Web browser. Use the default information to login:

Username: admin Password: admin

See additional instructions for WiseWay GUI starting on next page.

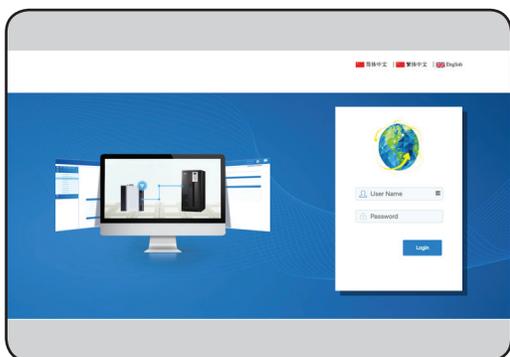
INSTRUCTIONS - WISEWAY

WiseWay



1. WiseWay GUI monitoring/control

WiseWay has many useful features and lets you monitor and control one UPS at a time. See real-time data from your unit (monitoring), and send remote commands (control) to it, such as running a 10-second selftest, shutdown, restart, etc. Some of the monitoring features are also available in WiseInsight.



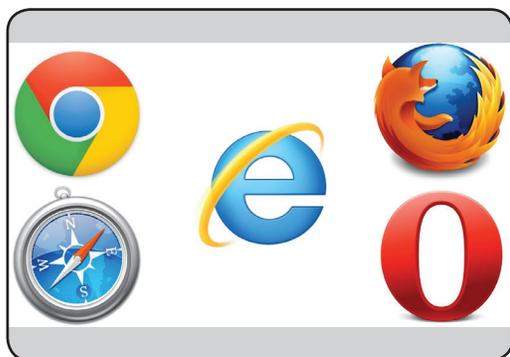
2. WiseWay Login

To launch WiseWay double click a device from the list in WiseFind, or highlight a device and click "Launch Web." The GUI will open in your default Web browser. If you know the IP address, you can enter it manually into your browser's address bar.

Use the default information to login:

Username: admin Password: admin

We recommend changing admin password after first login. Look under "Settings and Control" then click "Network Setting."

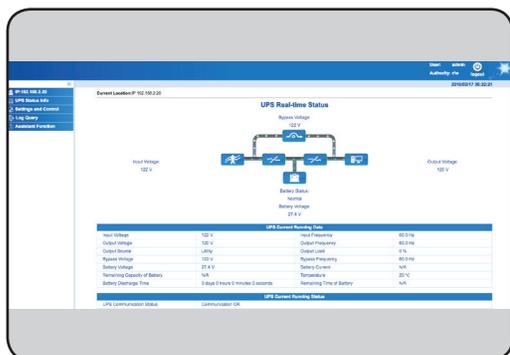


3. Browser Compatibility

WiseWay is suitable for the following browsers:

- Chrome
- Safari
- Internet Explorer
- Firefox
- Opera

WiseWay GUI is accessible on MAC computers.



4. WiseWay Home Screen

Click the IP address on the top left menu to see the WiseWay home screen, which shows live real-time data for the connected UPS. The next pages of this manual will go through other left-side menu options available in WiseWay.

INSTRUCTIONS - WISEWAY

WiseWay - UPS Status Info Menu

The UPS Status Info menu shows “read only” real-time data for your UPS system. There are no settings to be changed in these menus.

System Status Information			
System Information			
System Name	N1C_Top	Hardware Version	KC502A_HW_V1.0
System Administrator	Admin	Firmware Version	KC502A_V1.00.00.01179
System Location	First_Floor	S/N	50A1430004451300446
Total Running Time	4 days 0 hours 54 minutes 11 seconds		
UPS System			
UPS Last Selftest Time		UPS Next Selftest Time	
Email Daily Report Time		Planning Task Alarm Ahead of Time (Minutes)	1
Network Status			
MAC Address	AO:BB:3E:40:8A:E8	Primary DNS Server	Belkin
Connection Type	100Mbps Full duplex	Secondary DNS Server	192.168.2.1
IP Address	192.168.2.20	Time Server	time.windows.com
Subnet Mask	255.255.255.0	Email Server	
Gateway IP Address	192.168.2.1	Login IP Address	192.168.2.5

1. System Status Info

This menu provides the an overview of system information, UPS system information and network status information.

UPS Basic Information	
UPS Basic Information	
Manufacturer	N1C
Firmware Version	VER 6.00
Model	N1CL1000
Rating Information	
Rated Input Voltage(V)	120 V
Rated Input Frequency(Hz)	60.0 Hz
Rated Output Voltage(V)	120 V
Rated Output Frequency(Hz)	60.0 Hz
Rated Apparent Power(VA)	N/A
Rated Active Power(W)	N/A

2. Basic Info

This menu provides basic information about your UPS device, including manufacturer, model number, firmware number, and input/output voltage information.

UPS Real-time Data		
Real-time Data		
UPS Information	UPS Communication Status	Communication OK
Input Information	Input Voltage	122 V
	Input Current	N/A
	Input Frequency	60.0 Hz
	Input True Power(W)	N/A
Output Information	Output Source	Utility
	Output Voltage	120 V
	Output Current	N/A
	Output Frequency	60.0 Hz
Bypass Information	Output Load	0 %
	Output True Power(W)	N/A
	Bypass Voltage	122 V
	Bypass Current	N/A
	Bypass Frequency	60.0 Hz
	Battery True Power(W)	N/A
Bypass Information	Battery Fault	N/A
	Battery Voltage	2.2 V
	Battery Current	N/A

3. Real-Time Data

This menu shows the real-time data of the UPS, including communications status, input and output information, bypass information and battery information. Use it to see if your UPS is functioning normally.

UPS Real-time Status		
Real-time Status		
UPS Information	UPS Communication Status	Communication OK
System Information	Remote Shutdown UPS output	N/A
	Remote Shutdown UPS	N/A
	UPS System Off	No
	Charger Abnormal	N/A
	Fan Abnormal	N/A
	Fuse Abnormal	N/A
	General Faults	No
	Shutdown Pending	No
	Immediate Shutdown	N/A
	Testing	No
	Diagnostic Test Fail	N/A
Input Information	Temperature Abnormal	No
	Input Abnormal	No
Output Information	Input Power Pending	N/A
	Output Abnormal	N/A
	Output Overload	No
	UPS Output Off	N/A

4. Real-Time Status

This menu shows the real-time status of the UPS, including system information, input information, output information, bypass information and battery information. Items in the table are things that often will trigger an alarm (input overload, system on bypass mode, system on battery mode, battery low voltage, fan abnormal, etc.) Use it to see if your UPS is functioning normally.

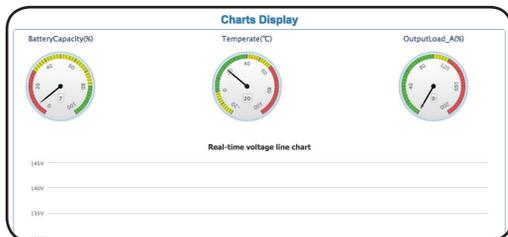
Module Real-time Status	
Modem Real-time Status	
Communication Status	Communication Failed
Signal Quality	0 %
Modem Manufacturer	
Module Mode	
Firmware Version	
Operator	
SMS Service Centre Number	

5. Module Real-Time Status

This menu shows real-time data from connected temperature and humidity modules. *Such modules are not-yet available for N1C UPS systems.

INSTRUCTIONS - WISEWAY

WiseWay - UPS Status Info Menu



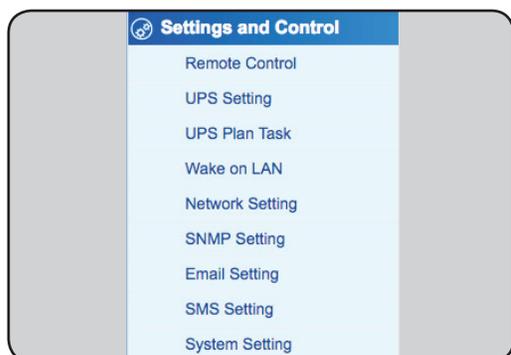
6. Charts

This menu shows real-time data in a graphical manner including battery capacity percentage*, temperature and output load percentage. Below the dials is a real-time voltage line chart showing input, output and bypass voltage.

**Early users of N1C UPS systems may not see a percent of battery voltage due to the interconnectivity of the new Lithium-Ion batteries within the unit and the software, which was designed for use with older VRLA battery UPS systems. We hope to allow this with future firmware and/or software updates.*

WiseWay - Settings and Control Menu

The Settings and Control Menu is used to set and control the SNMP card and the UPS. Settings within the sub-menus allow you to remotely control the unit, change UPS settings (including data log and alarm settings), schedule tasks for the UPS, set Wake On LAN settings*, network settings, User name and password setup, SNMP card settings, Email alarm settings, SMS Settings* and system settings. (*NOTE: not available on N1C UPS systems as of yet.)

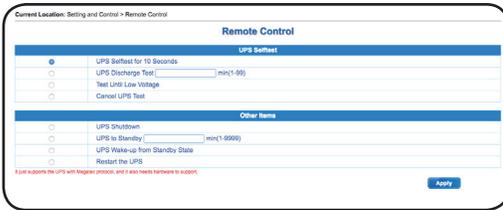


1. Settings and Control

Click "Settings and Control" on the left menu to see the sub menus where you can adjust settings and remotely control your UPS system.

INSTRUCTIONS - WISEWAY

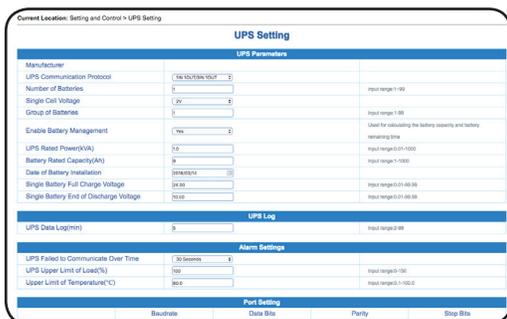
WiseWay - Settings and Control Menu



2. Remote Control

The Remote Control menu allows you to do several remote control functions of your UPS device:

- **10-second selftest** (will switch UPS to battery mode for 10 seconds)
- **UPS discharge test** (set a time length for your UPS to temporarily run on battery mode)
- **Test Until Low Voltage** (run your UPS on battery mode until it reaches low voltage. System will convert back to online double-conversion power when low-voltage is reached.)
- **Cancel UPS Test** (cancels any activate test mode above and returns to UPS normal operation)
- **UPS Shutdown** (switches off the UPS device and puts it into bypass mode)
- **UPS to Standby** (switches UPS to bypass mode for a desired number of minutes)
- **UPS Wake-up from Standby State** (switches UPS back to normal operation)
- **Restart the UPS** (restarts the UPS device and returns it to normal operation; it will switch to bypass mode temporarily during a restart)



3. UPS Setting

The UPS settings page allows you to change various settings for your UPS, including specific parameters, the log capture rate, alarm settings and port settings. Most of these settings do not need to be adjusted for your UPS to work properly.

UPS Parameters

- Default settings are:
- UPS Communication Protocol: 1 In 1 Out/3In 1 Out
- Number of batteries: 2
- Single Cell Voltage: 12 V
- Groups of Batteries 1
- Enable Battery Management: No (Changing the setting of this menu to “Yes” may result in you being able to view a battery capacity % in the UPS Status Info if settings are

INSTRUCTIONS - WISEWAY

WiseWay - Settings and Control Menu

Current Location: Setting and Control > Wake on LAN

Wake on LAN

Wake up the LAN Computer after Power Restore:

MAC address	Device name	IP	Port	Protocol	Priority	Weight
MAC address 1	Device name 1	IP	Port	Protocol	Priority	Weight
MAC address 2	Device name 2	IP	Port	Protocol	Priority	Weight
MAC address 3	Device name 3	IP	Port	Protocol	Priority	Weight
MAC address 4	Device name 4	IP	Port	Protocol	Priority	Weight
MAC address 5	Device name 5	IP	Port	Protocol	Priority	Weight
MAC address 6	Device name 6	IP	Port	Protocol	Priority	Weight

Apply

5. Wake On LAN

At this time, there should be no settings entered for any sections on the page. The configurations available on this page are for paring the SNMP card and WiseClose software, which is still under development for N1C UPS systems. WiseClose is software that will shut down and restart a PC or server automatically in the event of a power failure, low UPS battery voltage or UPS failure. Check our website, lithium-ion-ups.com for when this feature becomes available.

Current Location: Setting and Control > Remote Control

Remote Control

UPS Selftest

- UPS Selftest for 10 Seconds
- UPS Discharge Test (min: 1-60)
- Test Low Line Voltage
- Cancel UPS Test

Other Items

- UPS Shutdown
- UPS to Standby (min: 1-6000)
- UPS Wake-up from Standby State
- Restart the UPS

Apply

6. Network Setting

This page allows you to view and change the network connection information for the UPS system's SNMP card. Adjust these settings carefully.

You can let your DHCP server automatically set the IP of your UPS device, or assign it an unused, static IP address, subnet mask and gateway address. You can also change other network settings such as the primary DNS Server IP and secondary DNS Server IP addresses. You may change how the WiseWay GUI logs in with your browser (HTTP or HTTPS or either)

Remote Login Page

- Change the password for the "admin" user here. We recommend doing this after initial login. You cannot remove the "admin" user. **Do not lose the admin password. It can not be recovered.**
- Add new users and passwords, and control whether that user has read/write access or read-only access.
- Leave the "IP Address Management" field set to "*. *.*.*.*"

INSTRUCTIONS - WISEWAY

WiseWay - Settings and Control Menu

SNMP Configuration			
Community	SNMP Port	Trap Receiving Port	Trap Sending Type
public	161	162	RFC1628

Trap Notice				
Community Setting: Set communities with trap to (from community string)				
Engine ID: Set communities with trap by different community string				
IP Address of the Recipient	Community	Engine ID	v1/v2 Receive	v3 Receive
	public		<input type="checkbox"/>	<input type="checkbox"/>
	public		<input type="checkbox"/>	<input type="checkbox"/>
	public		<input type="checkbox"/>	<input type="checkbox"/>
	public		<input type="checkbox"/>	<input type="checkbox"/>
	public		<input type="checkbox"/>	<input type="checkbox"/>
	public		<input type="checkbox"/>	<input type="checkbox"/>
	public		<input type="checkbox"/>	<input type="checkbox"/>
	public		<input type="checkbox"/>	<input type="checkbox"/>

Permission Setting		
Authorized IP Address	Community	Permission
	public	No Permission
	public	No Permission

7. SNMP Setting

The settings on the SNMP Setting page, under the SNMP Configuration menu, should remain as default:

Community	SNMP Port	Trap Receiving Port	Trap Sending Type
public	161	162	RFC1628

At this time, there should be no settings entered for any other sections on the page. The configurations available on this page are for pairing the SNMP card and WiseClose software, which is still under development for N1C UPS systems. WiseClose is software that will shut down and restart a PC or server automatically in the event of a power failure, low UPS battery voltage or UPS failure. Check our website, lithium-ion-ups.com for when this feature becomes available.

Email Server	
Email Server	
Email Ports	25
Email Address Sender	
Email Transmission (Encrypted Using SSL)	Yes
Use Password Authentication	Yes
Email Account	
Email Password	

Email Alerts		
Account	Email Address of Recipient (Receiving the Event Log Available)	Event Set
Account1		Event Set
Account2		Event Set
Account3		Event Set
Account4		Event Set
Account5		Event Set
Account6		Event Set
Account7		Event Set
Account8		Event Set

Daily Reports	
Account	Email Address of Recipient (Receiving Daily Report Available)
Account1	
Account2	

8. Email Setting

Use the Email Setting page to set up email alerts in the event of alarm situations for your UPS.

You will need your email's outgoing server settings, a valid sender email address, and username and password. Emails will come "from" that address. You can send a test email using the field at the bottom of the page to ensure your email settings are correct.

Choose up to 8 recipients for the alert emails and select which alarm events trigger emails for them. Change the "Email sent when event occurs warning" drop-down to "Yes." Enter an email in the appropriate field and click "Event Set" to choose which of the 27 alarms trigger an email to that recipient. Click "Apply" to save changes.

You can also choose to specify up to four emails to receive daily reports sent from the UPS at a specific time. Change the "daily reports sent on time" drop-down to "Yes" and select a time in the appropriate field. Enter email addresses in the accounts boxes below and click "Apply."

INSTRUCTIONS - WISEWAY

WiseWay - Settings and Control Menu

The screenshot shows the 'SMS Setting' configuration page. At the top, it says 'Current Location: Setting and Control > SMS Setting'. The page is titled 'SMS Setting' and has a blue header. It is divided into two main sections: 'SMS Setting' and 'Phone Number to Receive Event Notifications'. The 'SMS Setting' section includes fields for 'Remote Server', 'SMS Server IP', 'Server Port', 'Use Password Authentication', 'Server User Name', and 'Server Password'. The 'Phone Number to Receive Event Notifications' section includes a dropdown for 'When the Event Occurs to Send Short Message Alarm' and seven input fields for 'Phone Number1' through 'Phone Number7'. A 'Test Set' button is located at the bottom right. A red note at the bottom left states: 'SMS requires the UPS set to receive packets, and it may need hardware to support'.

9. SMS Setting

The SMS Setting is **NOT compatible** with N1C UPS systems at this time. Leave all settings in their default state. Please check our website, lithium-ion-ups.com, to see if this feature becomes available.

The screenshot shows the 'System Setting' configuration page. At the top, it says 'Current Location: Setting and Control > System Setting'. The page is titled 'System Setting' and has a blue header. It is divided into three main sections: 'System Config', 'Internet Time', and 'Time and Date'. The 'System Config' section includes fields for 'System Name', 'System Administrator', and 'System Location'. The 'Internet Time' section includes fields for 'Auto Update Interval' and 'Time Server'. The 'Time and Date' section includes fields for 'System Time', 'Timezone', and 'Regulate Time by DST'. A 'Language Setting' section at the bottom includes fields for 'Interface Language' and 'Email and SMS Language'. An 'Apply' button is located at the bottom right. A red note at the bottom left states: 'Note: If you have disabled in your primary's cookies, the below settings will not work'.

10. System Setting

This page allows you to view and change the name of your device, the name of the system administrator for it, and the name of a specific location of the device. These are handy to change if you have multiple UPS devices on your network so you can easily identify the UPS system and its location during an alarm event. These settings also transfer over for use in the WiseInsight software, which is able to monitor multiple network-connected UPS systems.

You can also change the time zone settings and date of your SNMP card and the language of the WiseWay GUI interface. We suggest keeping it set to English as the default language.

INSTRUCTIONS - WISEWAY

WiseWay - Log Query Menu

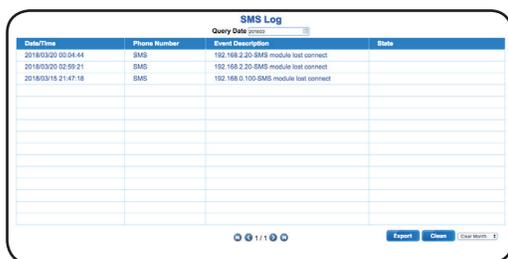
The Log Query menu lets you view, sort and export data logs from the UPS device.



Date/Time	Event Description
2018/03/20 01:50:08	Test Finished
2018/03/20 01:50:08	Battery Supply Off
2018/03/20 01:50:06	Cancel all test activities command
2018/03/20 01:54:44	Testing
2018/03/20 01:54:44	On Battery Mode
2018/03/20 01:54:41	UPS discharge test for some minutes
2018/03/20 01:54:19	Test Finished
2018/03/20 01:54:19	Battery Supply Off
2018/03/20 01:48:19	Testing
2018/03/20 01:48:19	On Battery Mode
2018/03/20 01:45:16	UPS discharge test for some minutes
2018/03/20 01:30:02	Email send fail
2018/03/20 01:25:37	Email send fail
2018/03/20 01:12:42	Test Finished
2018/03/20 01:12:42	Battery Supply Off

1. Event Log

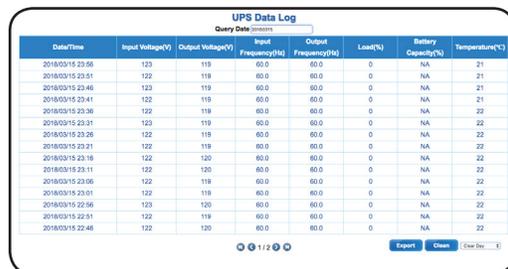
The Event Log shows all alarm events that have occurred on the UPS for a given month. You can page through all events and view on WiseWay GUI, or you can click the “Export” button to initiate a CSV file download with the event data.



Date/Time	Phone Number	Event Description	State
2018/03/20 03:04:44	SMS	192.168.2.20-SMS module test connect	
2018/03/20 02:59:21	SMS	192.168.2.20-SMS module test connect	
2018/03/15 21:47:18	SMS	192.168.0.100-SMS module test connect	

2. SMS Log

The SMS Log is **NOT compatible** with N1C UPS systems at this time. It may say the SMS module lost connection. This is due to the WiseWay seeking a SMS module that does not yet exist for N1C UPS devices. Please check our website, lithium-ion-ups.com, to see if this feature becomes available.



Date/Time	Input Voltage(V)	Output Voltage(V)	Input Frequency(Hz)	Output Frequency(Hz)	Load(%)	Battery Capacity(%)	Temperature(°C)
2018/03/15 23:56	123	119	60.0	60.0	0	NA	21
2018/03/15 23:51	122	119	60.0	60.0	0	NA	21
2018/03/15 23:46	123	119	60.0	60.0	0	NA	21
2018/03/15 23:41	122	119	60.0	60.0	0	NA	21
2018/03/15 23:36	122	119	60.0	60.0	0	NA	22
2018/03/15 23:31	123	119	60.0	60.0	0	NA	22
2018/03/15 23:26	122	119	60.0	60.0	0	NA	22
2018/03/15 23:21	122	119	60.0	60.0	0	NA	22
2018/03/15 23:16	122	120	60.0	60.0	0	NA	22
2018/03/15 23:11	122	119	60.0	60.0	0	NA	22
2018/03/15 23:06	122	119	60.0	60.0	0	NA	22
2018/03/15 23:01	122	119	60.0	60.0	0	NA	22
2018/03/15 22:56	123	120	60.0	60.0	0	NA	22
2018/03/15 22:51	122	119	60.0	60.0	0	NA	22
2018/03/15 22:46	122	120	60.0	60.0	0	NA	22

3. UPS Data Log

The UPS Data Log keeps a record of UPS data by date, including input and output voltage, input and output frequency, battery load percentage, battery capacity* and battery temperature. You can choose which date to view using the Query Date option at the top. You can also click the “Export” button to initiate a CSV file download with the UPS Data Log.

**Early users of N1C UPS systems may not see a percent of battery voltage due to the interconnectivity of the new Lithium-Ion batteries within the unit and the software, which was designed for use with older VRLA battery UPS systems. We hope to allow this with future firmware and/or software updates.*

INSTRUCTION - WISEWAY

WiseWay - Assistant Function Menu

The Log Query menu lets you view, sort and export data logs from the UPS device.

The screenshot shows the 'Firmware Update' screen with the following sections:

- Version:** KCS02A_V1.00.00.01179
- Certificate Upload:** Includes an 'HTTPS Certificate' field and an 'Apply' button.
- Location Update:** Includes an 'Update File' field and an 'Update' button.
- FTP Update:** Includes fields for 'FTP Server', 'User Name', 'Password', 'Time of Automatic Update', and 'Manual Update'. A note states: 'Note: If the firmware update is successful, the system will reboot.'

1. Firmware Update

In the event new firmware for your UPS system or SNMP card become available, navigate to the Firmware Update screen and upload the files in the appropriate areas. Firmware updates are available on our website, lithium-ion-ups.com.

The screenshot shows the 'Port Debug' screen with a 'Port Data' table. The table contains the following data:

Time	Code	Content
2018/03/20 00:32:10	Send Q2	
2018/03/20 00:32:10	Recv Q2	
2018/03/20 00:32:10	Send F	
2018/03/20 00:32:09	Recv F	#120.0 8.3 24.00 60.0
2018/03/20 00:32:08	Send Q1	
2018/03/20 00:32:06	Recv Q1	#122.8 122.8 118.9 200.80 0 2.28 21.0 00000001
2018/03/20 00:32:05	Send Q2	
2018/03/20 00:32:05	Recv Q2	
2018/03/20 00:32:05	Send F	
2018/03/20 00:32:05	Recv F	#120.0 8.3 24.00 60.0

2. Port Debug

The Port Debug tool allows you to download files that can be sent to the manufacturer for analysis in the event of a system failure. With our Limited Lifetime Warranty on N1C UPS devices, if you experience system failures, please contact our service department directly to see if your unit qualifies for a replacement: 877-226-3311

The screenshot shows the 'About' screen with the following information:

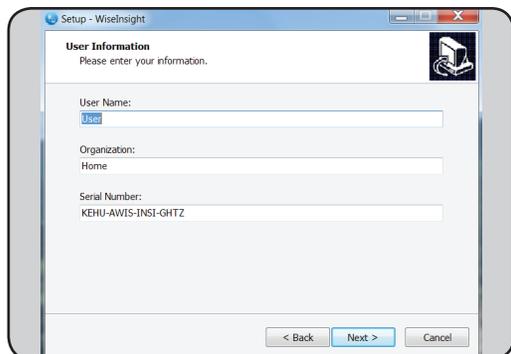
Version Information	
Hardware Version	KCS02A_V1.01.0
Firmware Version	KCS02A_V1.00.00.01179
Serial Number	00A1403004451300446
Company Name	
Address	
Telephone	
Fax	
Postal Code	
Website	

3. About

The About screen shows various other data about the N1C UPS System, including hardware and firmware version numbers and serial number of the SNMP card.

INSTRUCTIONS - WISEINSIGHT

WisInsight - Getting Started



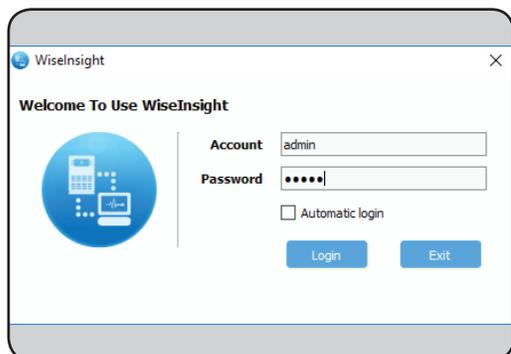
1. Install

Open the WisInsight_Setup.exe program to install the software. Follow the on-screen instructions provided by the setup wizard. On the User Information Screen, you may change the name of the user and organization. **DO NOT CHANGE the default software serial number: KEHU-AWIS-INSI-GHTZ**



2. Launching Program

After installation, WisInsight can be opened by double-clicking the program icon.



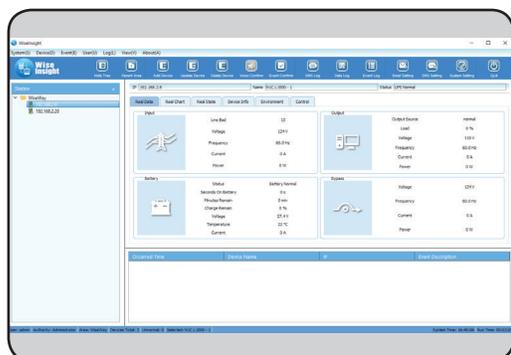
3. Login Screen

At login, enter the default credentials:

Account: admin

Password: admin

It is recommended you immediately change the “admin” password under “User” menu after initial login. **Do Not Lose This Password.** If automatic login is checked, it will login automatically with the last-used account next time. This can also be changed through System->System Setting menu.



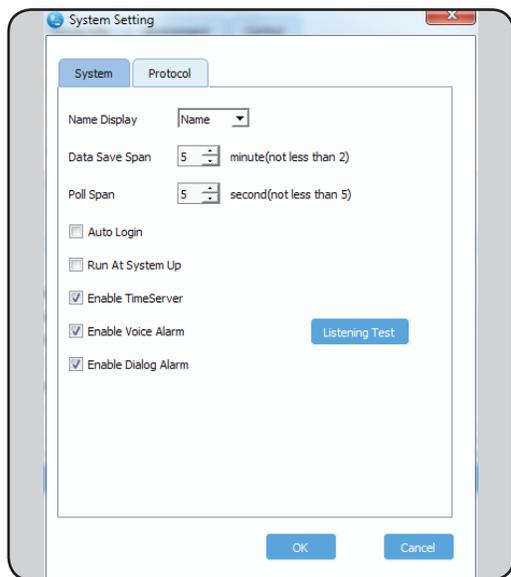
4. Main Screen

The main screen will show all connected UPS devices on the “station” menu at left. You will first need to add devices to WisInsight (See instructions in “Device Menu” section). Once added, double-click a device in the menu to see real-time data for it. Right-click a device to update device info, or “launch device” to open up the WiseWay GUI web interface for it. These options are also available under the “Device” menu.

INSTRUCTIONS - WISEINSIGHT

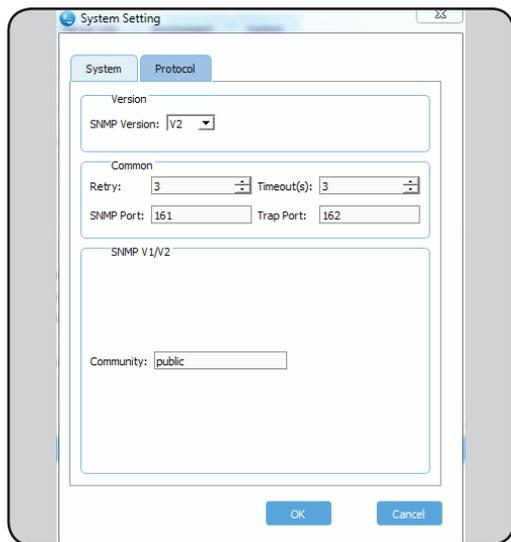
WisEInsight - System Menu

The following instructions will go through options available under the “System” menu. These settings can only be adjusted by a user who has read/write access.



1. System Setting - System Tab

Use this to change the name display of devices (by name or by IP), how frequently to save data, how frequently to collect data, set auto login (if checked, will log in with last-used credentials), enable/disable run at startup (if checked will run program automatically at PC startup), enable/disable time server (if checked, it will open the time server and the network adapter will adjust the system time automatically), enable/disable the audible voice alarm (if checked an audible voice will play through PC speakers if an alarm is triggered), enable/disable the dialog alarm (if checked, a screen alert pop-up appears if an alarm is triggered).



2. System Setting - Protocol Tab

Use this menu (second tab in system setting menu option) to change the SNMP protocols. The default values are:

SNMP Version: V2

Retry: 3

Timeout(s): 3

SNMP Port: 161

Trap Port: 162

Community: Public

In WisEInsight, the configuration of SNMP protocol should be consistent with the protocol of the network adapter, which ensures the communication with the SNMP card is normal.

INSTRUCTIONS - WISEINSIGHT

WisInsight - System Menu

Email Enable

Server

Host Email Server:
(SMTP) SSL Port: 25

Sender Email Address:

Email Authentication Required

User Name:
Password:

Recipient

Recipient Email Address:

Add Edit Delete Send Test Mail

OK Cancel

3. Email Setting

The email settings allow you to enter settings for your email provider to have the software send email alerts in the event of a system alarm. Adjust these settings to the requirements of our outgoing email server. You can add recipients of the emails in the recipient box and select which types of events will trigger email alerts.

Recipient email address:

Filter

<input type="checkbox"/> Battery Abnormal	<input type="checkbox"/> Fan Abnormal	<input type="checkbox"/> Temperature2 Down Min-value
<input type="checkbox"/> On Battery Mode	<input type="checkbox"/> Fuse Abnormal	<input type="checkbox"/> Humidity2 Over Max-value
<input type="checkbox"/> Battery Low Capacity	<input type="checkbox"/> General Faults	<input type="checkbox"/> Humidity2 Down Min-value
<input type="checkbox"/> Battery Useup	<input type="checkbox"/> Diagnostic Test Fail	<input type="checkbox"/> Temperature3 Over Max-value
<input type="checkbox"/> Ups Temperature Abnormal	<input type="checkbox"/> Ups Communication Interrupt	<input type="checkbox"/> Temperature3 Down Min-value
<input type="checkbox"/> Input Abnormal	<input type="checkbox"/> Input Power Pending	<input type="checkbox"/> Humidity3 Over Max-value
<input type="checkbox"/> Output Abnormal	<input type="checkbox"/> Shutdown Pending	<input type="checkbox"/> Humidity3 Down Min-value
<input type="checkbox"/> Output Overload	<input type="checkbox"/> Immediate Shutdown	<input type="checkbox"/> Temperature4 Over Max-value
<input type="checkbox"/> On Bypass Mode	<input type="checkbox"/> Testing	<input type="checkbox"/> Temperature4 Down Min-value
<input type="checkbox"/> Bypass Abnormal	<input type="checkbox"/> Agent Communication Lost	<input type="checkbox"/> Humidity4 Over Max-value
<input type="checkbox"/> Remote Shutdown UPS output	<input type="checkbox"/> Temperature1 Over Max-value	<input type="checkbox"/> Humidity4 Down Min-value
<input type="checkbox"/> Remote Shutdown UPS	<input type="checkbox"/> Temperature1 Down Min-value	<input type="checkbox"/> Module1 Communication Lost
<input type="checkbox"/> Charger Abnormal	<input type="checkbox"/> Humidity1 Over Max-value	<input type="checkbox"/> Module2 Communication Lost
<input type="checkbox"/> Ups Output OFF	<input type="checkbox"/> Humidity1 Down Min-value	<input type="checkbox"/> Module3 Communication Lost
<input type="checkbox"/> Ups System OFF	<input type="checkbox"/> Temperature2 Over Max-value	<input type="checkbox"/> Module4 Communication Lost

Select all Unselect all

OK Cancel

When adding a new email recipient, enter their email address at the top of the box.

There are 45 available options to select from for email alerts. You can select them all with the “select all” button, or choose individually. Press “OK” to save. You can send a test email to any of the recipients, or edit their settings at any time using the appropriate options on the main Email Settings window.

Delete email recipients by highlighting their email address from the email settings screen and press the “Delete” button.

SMS Setting

SMS Status

Communication Status: Serial port open failure

Model:

Operator:

Manufacturer:

Signal Quality: 0

Software Version:

SMS Service Centre Number:

SMS Enable

Serial Name: Baud Rate: 1200

Add Edit Delete

Test Phone No.: Send

Phone Number: "country code + number", e.g.: To add number 1333333333 in China(country code is 86), input 861333333333

OK Cancel

4. SMS Setting

The SMS Setting is **NOT compatible** with N1C UPS systems at this time. Leave all settings in their default state. Please check our website, lithium-ion-ups.com, to see if this feature becomes available.

INSTRUCTIONS - WISEINSIGHT

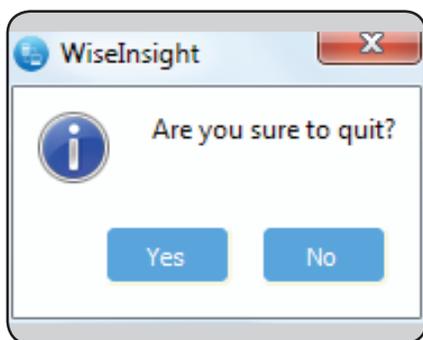
WiseInsight - System Menu

5. Export Setting

The “Export Setting” option in the system menu allows you to save the system’s configuration to your PC. It automatically opens a Windows dialog box that allows you to choose the location of where the configuration file will be saved. The export configuration file (ends in .wicf) includes the system settings and email settings. These files can be re-imported if necessary, or saved to another computer with WiseInsight software and imported there to save you setup and configuration time.

6. Import Setting

The “Import Setting” allows you to navigate to a saved Export file (.wicf) and import its contents to WiseInsight. This will overwrite existing configuration settings. Navigate to the saved file in the Windows dialog box that pops up when you click Import Settings from the System Menu.



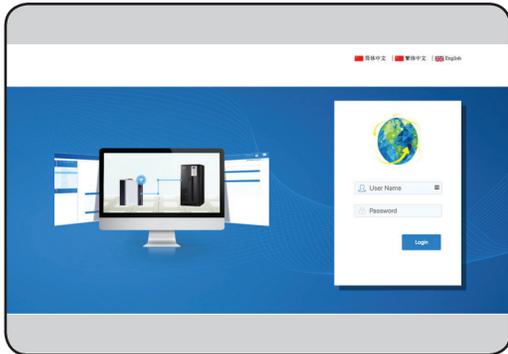
7. Quit

Exits the program. You can also use the red “X” on the top right of the program window.

INSTRUCTIONS - WISEINSIGHT

Wiselynsight - Device Menu

The following instructions will go through options available under the “Device” menu. A UPS device must be highlighted under the “Station” menu for several of these options to work.



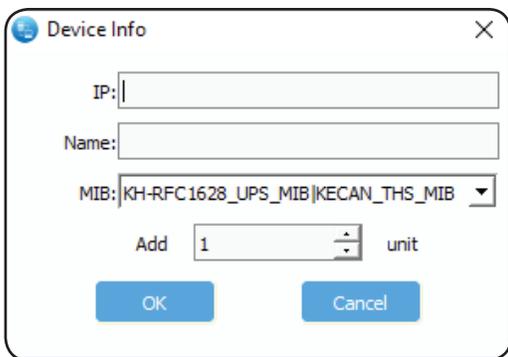
1. Launch Device

Choosing “Launch Device” will open the Wiselynsight GUI in your default web browser for any device selected (highlighted) in the station menu.



2. Search Device

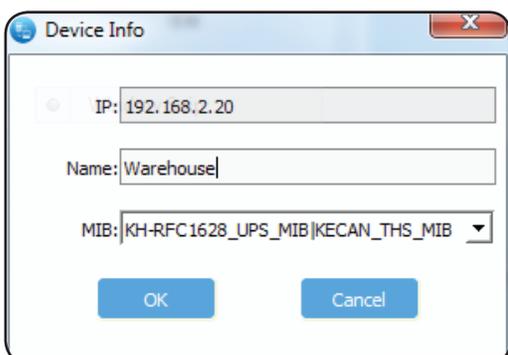
Search Device will scan your network for any N1C UPS systems, and potentially other brand UPS systems on your network, so you can add them to the Wiselynsight software. Note: This software may not be compatible with all brands of UPS devices.



3. Add Device

Add a device manually by entering its IP Address. Give it a name to help you remember the device.

In the MIB setting field, for N1C devices, choose the setting: **“KH-RFC1628_UPS_MIB”** or **“KH-RFC1628_UPS_MIB|KECA_THS_MIB”**



4. Update Device

Allows you to change the name of the device highlighted in the Station menu. You can also change the MIB setting.

INSTRUCTIONS - WISEINSIGHT

WisInsight - Device Menu



5. Delete Device

Allows you to delete the device highlighted in the Station menu. You can remove the device history data and event log from your monitoring dashboard. Removing data and logs is irreversible. You can re-add deleted devices using the "Add Device" or "Search Device" menu options.

6. Export Device

Click "Export Device" to export device information in the form of .db file. It includes the area where the device is located and the device information.

7. Import Device

Click "Import Device" to import the device information from a previously-exported .db file. Importing device will overwrite the information for devices with the same IP address. This is irreversible.

WisInsight - Event Menu

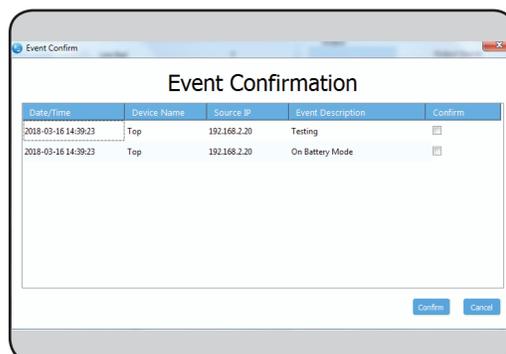
The following instructions will go through options available under the "Event" menu.

1. Voice Confirm

Deactivates an audible alarm that plays after an alarm. Voice alarm will repeat until deactivated or alarm ceases.

2. Event Confirm

Alarm events appear in the event confirmation dialog. After checked and confirmed, the checked event will not display in the "event display area" in the main page.



INSTRUCTIONS - WISEINSIGHT

WiselyInsight - User Menu

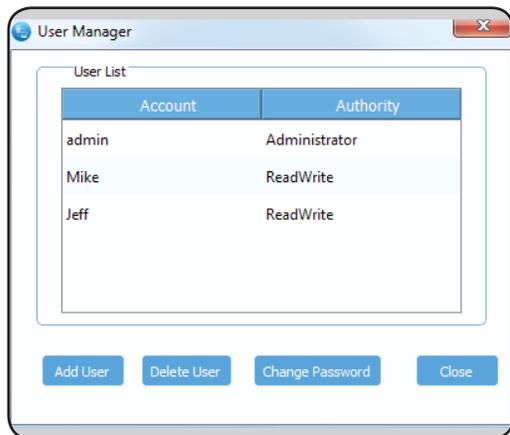
The following instructions will go through options available under the “User” menu.



1. Change Password

Here, you can change the password of the logged-in user. Enter the existing password in the “Old Password” field. Then enter a new password in the two fields below to confirm the change.

This is where you can change the name of the “admin” user. **Do not lose this password. It cannot be recovered if lost.**



2. User Manager

Only the administrator (admin) can display this menu and add or delete users. The admin account can also change the password for any users if they know that user’s existing password.

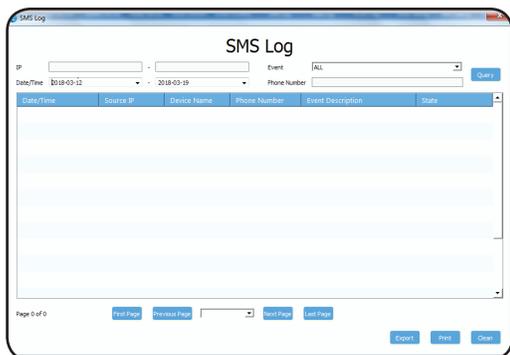
Click the Add User button to add a user. Enter a name or identifier in the “Account” field, and a password. In the “Authority” drop-down choose whether the user has “Read Only” or “Read/Write” access. “Read Only” will prevent the user from making any changes to the software settings or connected UPS Systems.

***NOTE about “admin” account:** The “admin” user cannot be deleted. It is the only account that has full administrative access to the software. It is recommended that the password for the “admin” account be changed after the initial login. **DO NOT LOSE THE ADMIN PASSWORD.** If lost, there is no way for the admin password to be retrieved other than to uninstall and reinstall the software and update all settings.

INSTRUCTIONS - WISEINSIGHT

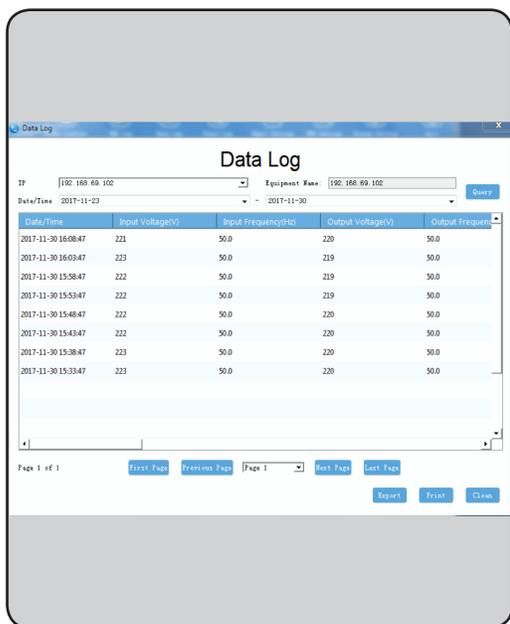
WisEInsight - Log Menu

The following instructions will go through options available under the “Log” menu.



1. SMS Log

Unavailable with N1C UPS systems.



2. Data Log

Data Log shows you data about the selected UPS for given times, such as input voltage, input frequency, output voltage, output frequency, battery load percentage, battery temperature, and more. This is useful for diagnosing problems with your UPS.

Change selected UPS using the drop-down menu from the top left of the Data Log window. Change the date range of the displayed data using the two drop-down menus on the row below and press “Query” to sort.

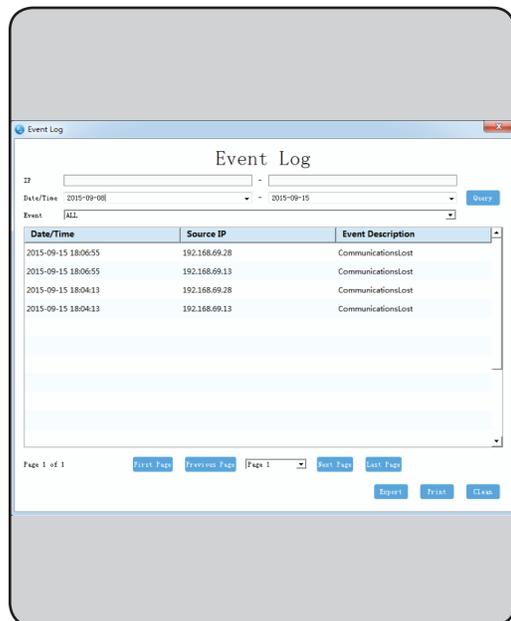
You can navigate page by page using the tools below the data display.

Export the data into a CSV using the Export button. Print the data using the Print button.

“Clean” will erase the data in the log. This cannot be undone.

INSTRUCTIONS - WISEINSIGHT

Wiselynsight - Log Menu



3. Event Log

Event Log shows you a listing of all past alarms for connected UPS devices. This information can be filtered.

Sort by individual or series of IP addresses in the top two fields. Choose dates to search in the middle row of fields. Choose which types of events to display using the “Event” drop-down menu. Press “Query” to sort the data.

You can navigate page by page using the tools below the data display.

Export the data into a CSV using the Export button. Print the data using the Print button.

“Clean” will erase the data in the event log. This cannot be undone.

Wiselynsight - View Menu

The following instructions will go through options available under the “View” menu. These settings change the appearance of the Wiselynsight main dashboard window.



1. Icon

Icon View shows all connected UPS units as icons in the main display window. Double-click to view data about them.

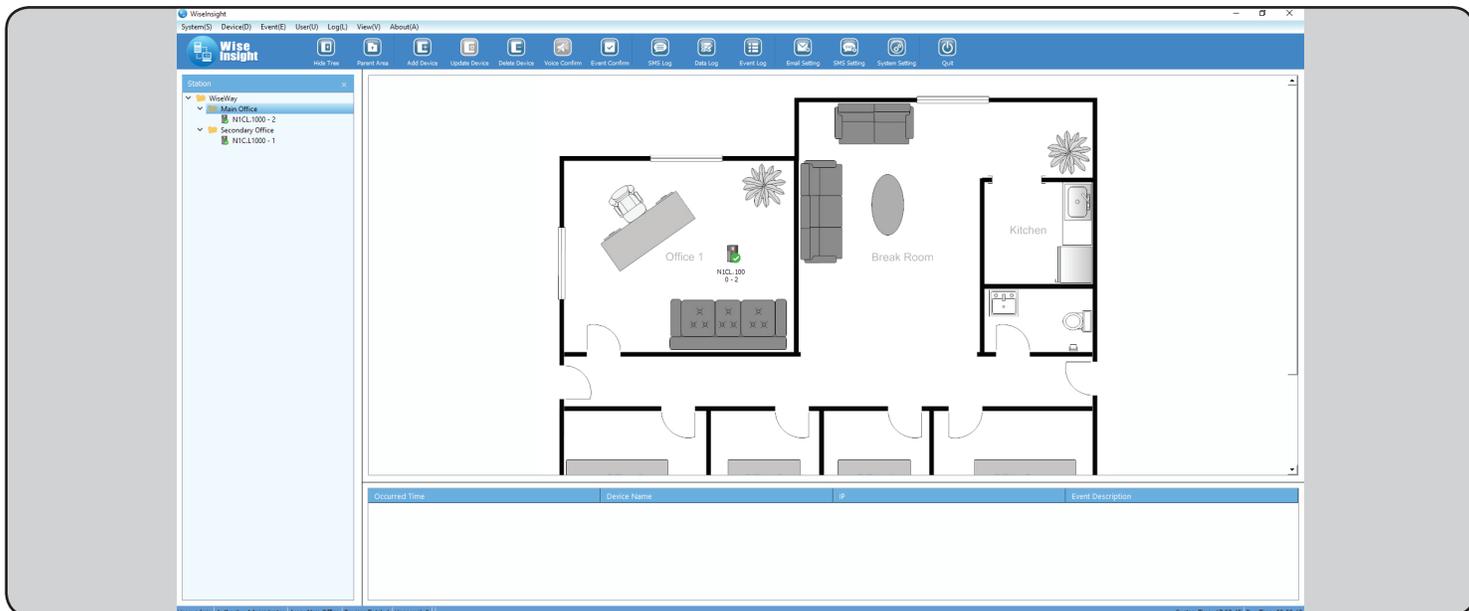


2. Table

Table View shows all connected UPS units as icons in the main display window. Use the horizontal scroll bar at the bottom of the window to see additional information about UPS systems in the selected folder.

INSTRUCTIONS - WISEINSIGHT

WiseInsight - View Menu



3. Map

Map View lets you view uploaded floor plans, photos, diagrams or maps (must be a .jpg file) and arrange your UPS device icons on them to get a visual representation of the physical location where each device is located in the physical world. This is extremely useful if you have a large building or office, multiple locations/buildings, and multiple UPS devices.

To upload a map, you need to have at least one “area” in the station tree menu. Right-click the top-most folder (default name is “WiseWay”) and choose “Add Area.” Give the area a name that represents the location of the UPS (examples: building name, building address, wing or floor number).

If needed, you can create multiple areas, and even sub-areas (such as a building, then by floor level) in the station tree hierarchy.

Drag and drop your UPS icons from the Station tree menu into the appropriate Area folder. The UPS devices will appear below the folders in the folder hierarchy.

Right-click on an area folder and choose “set map.” Click “Browse” and navigate to the file you wish to upload. (**NOTE: due to a software glitch, it may ask you to navigate to the .jpg file twice*).

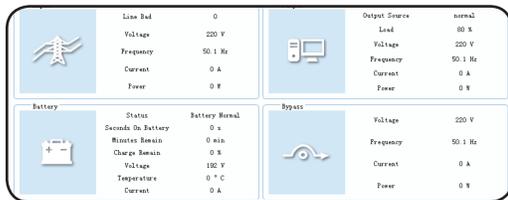
Left-click the folder you wish to edit in the station menu. The image file should appear on the main window of the dashboard. Drag-and-drop the UPS device icons to the appropriate location on the image you’ve uploaded. These icons will change in the event of an alarm trigger (such as a loss of power or communication). This will let you easily see where the problem area is so you can send help to that area.

INSTRUCTIONS - WISEINSIGHT

WisEInsight - Main Dashboard Tabs



The following instructions will go through options available under the main dashboard “tabbed” menu, which becomes visible after double-clicking a UPS device in the “Station” menu. These settings change the appearance of the WisEInsight main dashboard window.



1. Real Data

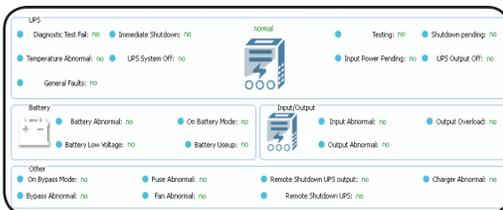
Displays the real-time data of the device, including input, output, battery, and bypass information.



2. Real Chart

Display the real-time data of the device by diagram. This is real-time data. The dials show battery remaining percentage*, battery load percentage, and battery temperature. The line graph across the bottom displays the real-time voltage curve and updates every few seconds. It shows input voltage, output voltage and bypass voltage. On single-phase UPS systems like ours, input and bypass voltage is the same.

**Early users of N1C UPS systems may not see a percent of battery voltage due to the interconnectivity of the new Lithium-Ion batteries within the unit and the software, which was designed for use with older VRLA battery UPS systems. We hope to allow this with future firmware and/or software updates.*



3. Real State

Displays the real-time status of the device, its battery, input/output, and other settings. During normal operation, all indicators should read “no” in green. During an alarm or abnormal state, you will see a red “yes” indicator next to the issue at hand.

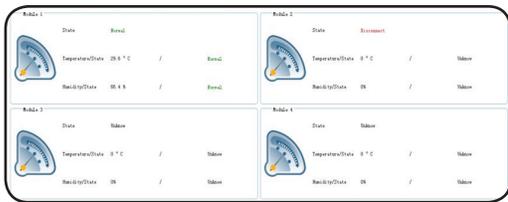


4. Device Info

Displays basic information of the device, including the device name, model number, location, etc. Some of these settings can be set in the WiseWay GUI when connected to the device under the “Settings and Control”-->“System Setting” menu.

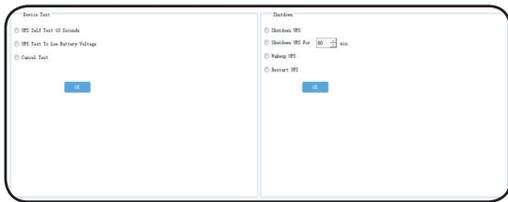
INSTRUCTIONS - WISEINSIGHT

WisInsight - Main Dashboard Tabs



5. Environment

The Environment page is designed to display the temperature and humidity of the ambient environment around the UPS. An additional module (*CURRENTLY NOT AVAILABLE AS AN N1C BRANDED PRODUCT) is required for its use.



6. Control

The Control page allows for the software to control certain brands of UPS systems (selftest, remote shutdown, etc.). ***THIS FEATURE IS CURRENTLY NOT AVAILABLE WITH N1C BRANDED PRODUCTS. Please "launch" and control N1C UPS devices via the WiseWay GUI interface.**

WisInsight - Main Program Icon Menu

The following instructions will go through options available under the main "Icon" menu. These are primarily shortcuts to items located in the main software drop-down menus.



Hide/Show Tree: Hides and shows the Station Menu on the left, which shows the folder and device hierarchy.

Parent Area: Returns the software to the main view screen.

Add Device: Opens the Add Device Interface, allowing you to add a device by IP address.

Update Device: Opens the Update Device Interface, allowing you to rename the selected UPS.

Delete Device: Opens the Delete Device Interface, allowing you to delete the selected device from the hierarchy, along with the device history data and event log. Deleting the history and event log cannot be undone.

Voice Confirm: Silences an activated voice alarm.

Event Confirm: Opens the alarm event window, allowing you to confirm alarm instances.

SMS Log: Shows a log of sent SMS messages. (*SMS messaging not-yet compatible with N1C devices. We hope to add this functionality in the future.)

Data Log: Opens the Data Log window, allowing you to query and export data logs for the selected UPS device.

Event Log: Opens the Event Log window, allowing you to query and export event logs for the selected UPS device.

Email Setting: Opens the Email Settings menu window, allowing you to adjust email alarm settings.

SMS Setting: Opens the SMS Settings menu window, allowing you to adjust SMS alarm message settings.

System Setting: Opens the System Settings menu window, allowing you to change system and SNMP protocol preferences.

Quit: Exits the program.