

The power behind competitiveness

# Delta InsightPower G3 Mini SNMP

User Manual



www.deltapowersolutions.com

## **Save This Manual**

This manual contains important instructions and warnings that you should follow during the installation, operation, storage and maintenance of this product. Failure to heed these instructions and warnings will void the warranty.

Copyright©2017 by Delta Electronics Inc. All Rights Reserved. All rights of this User Manual ("Manual"), including but not limited to the contents, information, and figures are solely owned and reserved by Delta Electronics Inc. ("Delta"). The Manual can only be applied to the operation or the use of this product. Any disposition, duplication, dissemination, reproduction, modification, translation, extraction, or usage of this Manual in whole or in part is prohibited without the prior written permission of Delta. Given that Delta will continuously improve and develop the product, changes may be made to the information in this Manual at any time without obligation to notify any person of such revision or changes. Delta will make all possible efforts to secure the accuracy and the integrity of this Manual. Delta disclaims any kinds or forms of warranty, guarantee, or undertaking, either expressly or implicitly, including but not limited to the completeness, faultlessness, accuracy, non-infringement, merchantability or fitness for a particular purpose of the Manual.

# **Table of Contents**

Chapter 1 : Imp	oortant Safety Instructions	1
1-1	Warnings	1
1-2	Standard Compliance	1
Chapter 2 : Intr	oduction	2
2-1	Product Description	2
2-2	Features	2
2-3	Package Contents	3
2-4	Interface	4
Chapter 3 : Inst	allation	б
Chapter 4 : Sys	tem Configurations	9
4-1	Configuring via InsightPower G3 Mini S Web	NMP 9
4-2	Configuring with EzSetting	11
4-3	Configuring via Telnet	13
4-4	Configuring through COM Port	13
4-5	Configuring via Text Mode	15
Chapter 5 : Insi	ghtPower G3 Mini SNMP Web	21
5-1	Monitor	22
5-1-	1 Information	22
	UPS Properties	22
	Battery Parameters	23
	In/ Out Parameters	23
	Identification	23
	Status Indication	24
	Power Module	24
5-1-2	2 History	25
	Event Log	25
	Data Log	26
	Upgrade Log	26
	Configure	27



5-1-3	Environment	27
	Information	28
	Configuration	28
5-1-4	About	28
	Information	28
5-2	Device	29
5-2-1	Management	29
	Configure	
	Control	31
	Schedule	32
	Event Level	33
5-3	System	35
5-3-1	Ethernet	35
	Host	35
	IPv4	35
	IPv6	37
5-3-2	Service	38
	Web	38
	Console	38
	FTP	39
	Time	40
	SNMP	41
	SNMPv3 USM	42
5-3-3	Notification	42
	SNMP Trap	42
	Mail Server	43
	Syslog	45
5-3-4	User	45
	Local	45
5-3-5	FW Upgrade	46
Chapter 6 : SNM	P Device Firmware Upgrade	47
Chapter 7 : Trou	bleshooting	50
Appendix A : Sp	ecifications	54
Appendix B : Wa	rranty	55

# Chapter 1 : Important Safety Instructions

## 1-1 Warnings

- The InsightPower G3 Mini SNMP, hereafter referred to as Mini SNMP, is designed to work with a UPS and needs to be installed inside the UPS's SNMP slot. Before installation, ensure that all power sources and critical loads connected to the UPS are disconnected.
- Do not place or use this unit in the presence of flammable substances.
- Do not attempt to disassemble the unit.
- Do not attempt to perform any internal modifications on the unit.
- Do not attempt to fix/ replace internal components. When repair is needed, refer all servicing to the nearest Delta service center or authorized distributor.
- Do not allow any objects or liquids of any kind to penetrate the unit.
- Always follow this User Manual to install and operate this unit.
- Do not play the included CD on a conventional CD player. This could generate loud noise at a level that could result in permanent hearing loss.

## **1-2** Standard Compliance

- EN 55032: 2015 ISN, Class B
- EN 55032: 2015 Radiated Emission, Class B
- EN 55024: 2010 + A1: 2015

IEC 61000-4-2: 2008

IEC 61000-4-3: 2010

IEC 61000-4-4: 2012

IEC 61000-4-6: 2013



# **Chapter 2 : Introduction**

## 2-1 Product Description

The InsightPower G3 Mini SNMP, hereafter referred to as Mini SNMP, is a device that provides an interface between an UPS and a network. It communicates with the UPS, acquires its information and remotely manages the UPS via a network system. The Mini SNMP supports public protocols including SNMP and HTTP. You can effortlessly configure this Mini SNMP using a network system and easily obtain your UPS's status and manage your UPS via the Mini SNMP.

## 2-2 Features

#### • Network UPS management

Allows remote management of the UPS from any workstation through Internet or Intranet.

#### • Remote UPS monitoring via SNMP & HTTP

Allows remote monitoring of the UPS using SNMP NMS, Delta MIB (Management Information Base) or a Web Browser.

# • UPS and system function configuration from any client (password protected)

Set the UPS and system parameters through a Web Browser.

#### Event logs & metering data keeping

Provides a history data of the UPS's power events, power quality, status and battery conditions.

#### Other features and supported protocols include:

- User notification via SNMP Traps and E-mail
- Network Time Protocol
- Telnet configuration
- BOOTP/ DHCP

- HTTPS, SSH, SFTP and SNMPv3 security protocols
- Remote event log management through syslog
- IPv4 protocol
- IPv6 protocol

# 2-3 Package Contents

Please carefully verify the Mini SNMP and the included accessories. Contact your dealer if any item is missing or damaged. Should you return the items for any reason, ensure that they are carefully repacked using the original packing materials came with the unit.





# 2-4 Interface

The interface includes a NETWORK port, a COM port, LED indicators, shown below. For their functions and indications, please refer to the table below.





#### No. Item Description

2 LED When the Mini SNMP is initializing or upgrading firmware, the Indicators two LED indicators flash simultaneously to show its status. Refer to the following:

- **Rapid simultaneous flashing** (every 50ms) : Initialization or firmware upgrade in progress.
- Slow simultaneous flashing (every 500ms) : Initialization failed.



**WARNING** : Do **NOT** remove the Mini SNMP or disconnect the UPS's input power during initialization or firmware upgrade! This could result in data loss or damage to the Mini SNMP.

The green LED indicator shows the network connection status:

- **ON** : Network connection established and the IPv4 address is useable.
- **OFF** : Not connected to a network.
- Flashes slowly (every 500ms) : Faulty IP address.

The yellow LED indicator shows the linking status between the Mini SNMP and the UPS:

- Flashes rapidly (every 50ms): UPS linked.
- Flashes slowly (every 500ms): UPS not linked.
- Console (COM)
   Connects to a workstation with the provided RJ45 to DB9 cable to configure the system.
  - 2. Connects to an EnviroProbe (optional) to monitor its connected environment monitoring devices.

Port

For EnviroProbe information, please refer to the Installation Guide included in the package of the EnviroProbe.



# **Chapter 3 : Installation**

# NOTE Before installation, please disconnect all power sources and critical loads connected to the UPS. Otherwise, the Mini SNMP might have shorting issues to cause UPS shutdown or damage.

- Please follow the procedures below to install the Mini SNMP into your UPS's SNMP slot.
  - **Step 1** Use tool to cut off three connections on the Mini slot (*see Figure 3-a*).



**Step 2** Pull the flat wire out and use tool to cut the straps that are tied to the flat wire (*see Figure 3-b*).



- Figure 3-c
- **Step 3** Take out the Mini SNMP and connect to the flat wire (*see Figure 3-c*).

**Step 4** Install the Mini SNMP through the Mini slot to the UPS (*see Figure 3-d*).



**Step 5** Use the two screws that get from Mini SNMP package to fix the Mini SNMP on the UPS (see Figure 3-e).







# **Chapter 4 : System Configurations**

There are different ways you can configure your Mini SNMP. If a network connection is available at your location, the following methods can be used:

- Web-based interface : The InsightPower G3 Mini SNMP Web offers comprehensive system management and monitoring. Please refer to Chapter 5: InsightPower G3 Mini SNMP Web.
- **EzSetting** : Use the provided program EzSetting to quickly set up your Mini SNMP. Please refer to *4-2 Configuring with EzSetting*.
- Telnet mode : Configure your Mini SNMP in text mode. Please refer to 4-3 Configuring via Telnet.

The above-mentioned methods require network connection. If not available, you can use direct COM port connection to set up your Mini SNMP. Please see **4-4 Configur-***ing through COM Port*.

- 1. To ensure system security, it is highly recommended that you change your account and password after the first login.
- 2. If you have multiple Mini SNMP units installed in your network, we highly suggest that you change the Mini SNMP's default Host Name to avoid conflicts. Also, it is recommended that you disable BOOTP/ DHCP and manually assign a valid static IP address to the Mini SNMP.

# 4-1 Configuring via InsightPower G3 Mini SNMP Web

To set up the Mini SNMP via your web browser, please follow the instructions below:

Step 1 Use a CAT5e network cable to connect the Mini SNMP's Network port to the network. Launch your web browser. In the address bar, enter the Mini SNMP's default Host Name InsightPower, or default IP address 192.168.1.100. If you are unable to connect, please see Chapter 7: Troubleshooting Q6.



If you have previously changed the Mini SNMP's Host Name or IP address, connect with the new settings.

- **Step 2** Log in as Administrator (default account/ password: admin/ password, case sensitive).
- Step 3 Specify your preferred display language (default: English) from the dropdown menu on the top right of the page. The Mini SNMP remembers your language preference. In the following instructions, English is chosen as the display language.
- Step 4 Click System → User → Local. Manage your login accounts and passwords under the "User" subhead. The access permission for the account types is shown as follows:
  - 1) **Administrator :** Allowed to modify all settings.
  - 2) **Device Manager :** Allowed to modify device-related settings.
  - 3) **Read Only User :** Only allowed to view settings without the permission to make changes.

You can manually specify whether users are allowed to log in from other LANs. If you wish to block login attempts from external connections, select **Only in This LAN**. Otherwise, select **Allow Any**.

- Step 5 Click System → Ethernet to set Host Name, IP address, Subnet Mask and Gateway IP for the Mini SNMP.
- Step 6 Click System → Service → Time to manually set time and date for the system, or enable automatic time synchronization between the Mini SNMP and the time servers.

To completely set up your Mini SNMP, please refer to **Chapter 5: Insight-Power G3 Mini SNMP Web**.

# 4-2 Configuring with EzSetting

Included in the provided CD, the EzSetting (compatible with Windows 2000/ 2003/ 2008/ XP/ Vista/ 7/ 10) allows you to easily configure your Mini SNMP and upgrade firmware on your SNMP devices. Follow the instructions below:

- **Step 1** Use the CAT5e cable to connect the Mini SNMP's Network port to the network.
- **Step 2** Make sure the workstation and the Mini SNMP are on the same LAN.
- **Step 3** Insert the provided CD in the CD-ROM drive. From the root directory, launch EzSetting.
- Step 4 Click Discover to search all available SNMP devices on the LAN. A list of devices will be shown.

🛞 Insight	tPower EzSetting	v2.0.25						- 🗆 ×
٩	Press the "Disco For Configuration Click on a line ite	ver" button to sear n and Upgrade, the em then press the	ch for all of the Account and Modify?butto	he SNMP devi Password fo n; repeat for	ces in the LAI r each device each device r	N. Discover must first be ent- required.	r ered.	LAN 10.0.10.52 ~ Subnet:
E)	Use "Configuration server ports, date	on" to set basic ne e/time, enable or	twork parame disable servic	eters, such as es, etc.	IP Address,	Configuratio	on	10.0.10.0 IPv4 Mask / IPv6 Prefix length:
	Use "Upgrade" to device.	o upload a firmwai	e file, then tr	ansmit it to a	single selecte	ed Upgrade.		255.255.255.0
Device	List							
IP Ad	ddress	Host Name	Account	Password	Version	Model/Product	^	Add
10	0.0.10.80	DESKTOP-1L		????????	02.00.03b	EMS3000		Add a new SNMP device to
10	0.0.10.31	TEST-PC		????????	02.00.02y	EMS3000		the list
19	92.168.1.110	EMS3000		????????	02.00.02k	EMS3000		14- d/6 -
10	0.0.10.34	WIN-JF3F0O		?????????	02.00.03b	EMS3000		Modiry
10	0.0.10.73	IE11WIN7		?????????	02.00.02s	EMS3000		Set the account and password
10	0.0.10.142	MCIS-TEST1		????????	02.00.02x	EMS3000		for the selected device.
01		InsightPower						Remove
10	0.0.10.15	EMS3000		????????	02.00.02k	EMS3000	~	Remove the colocted device
<							>	from the Device List.
Sel	lect All De	select All						
	To update the firmware of multiple devices, select their checkboxes in the Device List then press Batch Upgrade Batch Upgrade"							
69	To configure multiple devices, select their checkboxes in the Device List then press the "Batch Configuration Batch Configuration							



- 1. If you want to search SNMP devices in a different domain, change the **Subnet** and **IPv4**/ **IPv6 Prefix Length** and click **Discover**.
- 2. If the Mini SNMP can not be found, check UDP port 3456 on the workstation you are using. Make sure it is open.



Step 5 Select the Mini SNMP that you want to modify from the Device List. Click Modify and enter Administrator's account and password (default: admin/ password, case sensitive).

IP & Account	×
SNMP Device Ad	dress
IP Address:	10 . 0 . 10 . 77
	Administrator Account
Account:	Default: admin
Password:	Default: password
	ОК

#### **Step 6** Click **Configuration** to configure network settings.

*Host Name(NetBIOS): InsightPower	BOOTP/DHCP Client:	Enable     O*Disable
		S Ellable S bibable
System Contactor:	*IP Address:	192 . 168 . 1 . 100
System Location:	*Subnet Mask:	255 . 255 . 255 . 0
Date/Time	Gateway IP:	192 . 168 . 1 . 254
O*SNTP  Manual	DNS IP:	0.0.0.0
Time Zone: GMT Dublin,Lisbon,London	IPv6	
*1st Time Server Name or IP: POOL.NTP.ORG	DHCPv6 Client:	○Enable ●*Disable
2nd Time Server Name or IP:	*IP Address:	::
	*Prefix Length:	0
Set Current Time: Date 08/04/2017 (MM/DD/YYYY)	Gateway IP:	::
Time 13:13:07 (hh:mm:ss)	DNS TP	
User Limitation	010 21	
Administrator: O In The LAN	System Configuration	
Device Manager: O In The LAN      O Allow Any	HTTP Server:	Enable O Disable
Read Only User: O In The LAN	Telnet Server:	Enable      Disable
	HTTP Server Port:	80
Reset to Default SNMPv3 OK Cancel	Telnet Server Port:	23

NOTE A gradient of the second second

# 4-3 Configuring via Telnet

- **Step 1** Use a CAT5e network cable to connect the Mini SNMP's Network port to the network.
- **Step 2** Connect the workstation (Windows or Linux) to the LAN that the Mini SNMP is connected to.
- **Step 3** For Windows, launch DOS prompt mode (**Start**  $\rightarrow$  **Run**  $\rightarrow$  key in **cmd** and press **Enter**). For Linux, launch Shell.
- **Step 4** Enter the following command: **telnet InsightPower** or **telnet IP address** to initiate telnet connection with the Mini SNMP.
- Step 5 When connection is established, enter Administrator's account and password (default: admin/ password, case sensitive). The Main Menu will appear on the screen. Please refer to 4-5 Configuring via Text Mode for more information.

- 1. The Mini SNMP terminates idle connections after 60 seconds.
- Refer to Chapter 5: InsightPower G3 Mini SNMP Web for complete configurations.

# 4-4 Configuring through COM Port

If a network connection is not available at your location, you can still set up the Mini SNMP via COM port connection. Please follow the instructions below:

NOTE

If you are running a non-Windows system, refer to your system's user manual for Telnet clients.

- **Step 1** Use the provided RJ45 to DB9 cable to connect the Mini SNMP's COM port to the workstations' COM port.
- Step 2 Download the free Telnet/SSH client program named PuTTY from *http://www.putty.org*.



#### **Step 3** Lunch PuTTY as shown below .

tegory:		
Session	Basic options for your Pull	TY session
Logging	Specify the destination you want to	connect to
Terminal	Host Name (or IP address)	Port
Keyboard		22
Bell	Generative hore:	
Window	Baw Telet Blocin (	SSH O Seda
Annearance	Onan Onan Onagr (	
Behaviour	Load, save or delete a stored session	n
- Translation	Saved Sessions	
- Selection		
Colours	Default Settings	Lord
Connection		LUGU
Data		Save
Proxy		
- Teinet		Delete
- Hogin		
e- Son		
Jonal	Close window on exit:	
	Always Never  Onl	y on clean exit

Step 4 Select Category  $\rightarrow$  Session and Connection type  $\rightarrow$  Serial.



**Step 5** In the **Serial line** bar, enter your workstation's COM port number, which is connected to the Mini SNMP's COM port. In the **Speed** bar enter the baud rate to 2400.

Category:		
Setsion L. Logging Terminal Terminal - Keyboard - Bell - Features - Window - Appearance - Behaviour - Translation	Basic options for your PuTTY session Specify the destination you want to connect to Specify the destination you want to connect to Specify the destination you want to connect to Specify the destination your and the specific term of term	
	Default Settings Load Save Delete	
Serial	Close window on exit: Always Never Only on clean exit	

Step 6 Click Open to continue, and PuTTY will automatically connect to the Mini SNMP. When connection is established, log in with Administrator's account/ password (default: admin/ password, case sensitive). Once you are logged in, the Main Menu appears on the screen. Please refer to 4-5 Configuring via Text Mode for more information.

# 4-5 Configuring via Text Mode

You can configure the Mini SNMP via text mode by using Telnet/ SSH clients such as HyperTerminal and PuTTY. In this section, you can find descriptions and default settings.

#### Main Menu

+========++
Web Card Main Menu
+=======+
Web Card Version 02.01.02
MAC Address 00-23-45-67-89-ab
[1]. User Manager
[2]. TCP/IP Setting
[3]. Network Parameter
[4]. Time Server
[5]. Soft Restart
[6]. Reset All To Default
[z]. Exit Without Save
[O]. Save And Exit
Mini>



## O User Manager

+=====================================	=======================================
+======================================	===============+
Local Auth	
Administrator	
[1]. Account:	admin
[2] Password	****
[3] Limitation	L AN
Dovico Managor	
[4] Account:	dovico
	uevice
[5] Password	****
[b]. Limitation:	LAN
Read Only User	
[7]. Account:	user
[8]. Password:	*****
[9]. Limitation:	ANY
[0]. Back To Previous Menu	1
Logi baon to thoricab mon	
MIRIN	

No.	ltem	Description	Default
[1]	Administrator Account	The default account/ password for the	admin
[2]	Administrator Password	Administrator (case sensitive).	password
[3]	Administrator Limitation	Restrict Administrator login area.	LAN
[4]	Device Manager Account	The default account/ password (case sensitive) for the Device Manager. This	device
[5]	Device Manager Password	account is only permitted to change device-related settings.	password
[6]	Device Manager Limitation	Restrict Device Manager login area.	LAN
[7]	Read Only User Account	The default account/ password (case sensitive) for Read Only User. This	user
[8]	Read Only User Password	account is only allowed to view set- tings without the permission to make changes.	password
[9]	Read Only User Limitation	Restrict Read Only User login area.	Any

## TCP/IP Setting

+=====================================	======+   ======+
[1] IPv4 Addroop	102 169 1 100
LIJ. IFV4 Address.	
[Z]. IPV4 Subnet Mask:	200.200.200.0
[3]. IPv4 Gateway IP:	192.168.1.254
[4]. IPv4 DNS1 IP:	0.0.0
[5]. IPv4 DNS2 IP:	0.0.0.0
[6]. DHCPv4 Client:	Enable
[7]. IPv6 Address:	::
[8]. IPv6 Prefix Length:	0
[9]. IPv6 Gateway IP:	
al IPv6 DNS1 IP	
THI IPVE DNS2 IP	
[b]. 1100 DH02 11.	Dianah I.a
$\begin{bmatrix} c \end{bmatrix}$ . DHOFVU.	DISADIE
[d] Host Name(NetBIUS):	Insigntrower
Lej. System Contact:	
[f]. System Location:	
[g]. Ethernet PHY Mode:	Auto Negotiation
ĪĀĪ. Status Stable:	3
[i]. Telnet Idle Time:	60
[0] Back To Previous Men	
Mini>	

No.	ltem	Description	Default
[1]	IPv4 Address	The IPv4 address.	192.168.001.100
[2]	IPv4 Subnet Mask	The IPv4 subnet mask setting.	255.255.255.000
[3]	IPv4 Gateway IP	The IPv4 gateway's IP address.	192.168.001.254
[4]	IPv4 DNS1 IP	IPv4 Domain Name Server1 IP.	0.0.0.0
[5]	IPv4 DNS2 IP	IPv4 Domain Name Server2 IP.	0.0.0.0
[6]	DHCPv4 Client	Enable/ Disable DHCPv4 protocol.	Enable
[7]	IPv6 Address	The IPv6 address.	
[8]	IPv6 Prefix Length	The IPv6 prefix length.	
[9]	IPv6 Gateway IP	The IPv6 gateway's IP address.	
[a]	IPv6 DNS1 IP	IPv6 Domain Name Server1 IP.	
[b]	IPv6 DNS2 IP	IPv6 Domain Name Server2 IP.	
[c]	DHCPv6	Enable/ Disable DHCPv6 protocol.	Disable
[d]	Host Name (NetBIOS)	The Host Name for the Mini SNMP.	InsightPower



No.	ltem	Description	Default
[e]	System Contact	The System Contact information.	
[f ]	System Location	The System Location information.	
[g]	Ethernet PHY Mode	Switch the speed (10/ 100 Mbps) and duplex, or auto negotiation.	Auto Negotiation
[h]	Status Stable	Status change confirmation check time.	3
[i]	Telnet Idle Time	Telnet connection time-out setting.	60 Seconds

## Network Parameter

+======================================	=============
Network Parameter	
[1]. HTTP Server: [2]. HTTPS Server: [3]. Telnet Server: [4]. SSH/SFTP Server: [6]. FTP Server: [6]. Syslog: [7]. HTTP Server Port: [8]. HTTPS Server Port: [9]. Telnet Server Port: [1]. SSH Server Port: [2]. Syslog Server1: [4]. Syslog Server2: [4]. Syslog Server3: [5]. Server Server Server3: [5]. Server Server3: [5]. Syslog Server3: [5]. Server Server4: [5]. Syslog Server3: [5]. Syslog Server4: [5]. Syslog Server4:	Enable Enable Enable Disable Disable 80 443 23 22 21
[g]. SNMP Get,Set Port: [g]. Back To Previous Menu	161
Mini>	

No.	ltem	Description	Default
[1]	HTTP Server	Enable/ Disable HTTP protocol.	Enable
[2]	HTTPS Server	Enable/ Disable HTTPS protocol.	Enable
[3]	Telnet Server	Enable/ Disable Telnet protocol.	Enable
[4]	SSH/ SFTP Server	Enable/ Disable SSH/ SFTP protocol.	Enable
[5]	FTP Server	Enable/ Disable FTP protocol.	Disable
[6]	Syslog	Enable/ Disable remote Syslog.	Disable
[7]	HTTP Server Port	HTTP port.	80

No.	ltem	Description	Default
[8]	HTTPS Server Port	HTTPS port.	443
[9]	Telnet Server Port	Telnet port.	23
[a]	SSH Server Port	SSH port.	22
[b]	FTP Server Port	FTP port.	21
[c]	Syslog Server 1	The Host Name of remote Syslog Server 1.	
[d]	Syslog Server 2	The Host Name of remote Syslog Server 2.	
[e]	Syslog Server 3	The Host Name of remote Syslog Server 3.	
[f ]	Syslog Server 4	The Host Name of remote Syslog Server 4.	
[g]	SNMP Get, Set Port	The SNMP port.	161

#### Time Server

You can manually adjust time and date for the Mini SNMP or set up automatic time server synchronization. The Mini SNMP and Windows support SNTP (Simple Network Time Protocol). If you need to start up a time server service on your workstation, please refer to *Chapter 7: Troubleshooting Q1*.

+====	=======+
Time Server	
+	
[1]. Time Selection:	Manual
[2]. Time Zone:	+0:00
[3]. 1st Time Server:	POOL.NTP.ORG
[4]. Znd lime Server: [5]. Period: [6]. Manual Date: [7]. Manual Time:	0:06:00 2017/08/04 13:13:07
[0]. Back To Previous Menu Mini>	



No.	ltem	Description	Default	
[1]	Time Selection	SNTP or manual.	SNTP	
[2]	Time Zone	Adjust your time zone.	+0 hr	
[3]	1 <sup>st</sup> Time Server	The first time server for SNTP.	POOL.NTP.ORG	
[4]	2 <sup>nd</sup> Time Server	The second time server for SNTP.		
[5]	Period	Auto update period of time server	0:06:00	
[6]	Manual Date	Set the date manually.	01/01/2000	
[7]	Manual Time	Set the time manually.	00:00:00	

#### Soft Restart

Reset the Mini SNMP. This will not affect the operation of the UPS.

#### Reset All To Default

Reset to manufacture default.

#### Exit Without Saving

Exit and ignore changes.

#### Save and Exit

Preserve your changes and exit.

## Chapter 5 : InsightPower G3 Mini SNMP Web

To configure the Mini SNMP via the InsightPower G3 Mini SNMP Web, please follow the steps below:

- **Step 1** Make sure that your Mini SNMP is connected to the LAN. Use a CAT5e network cable to connect the Mini SNMP's Network port to the network.
- Step 2 Launch your web browser. In the address bar, enter the Mini SNMP's Host Name http://nsightPower/ or IP address. For encrypted connection, enter https://InsightPower/ or https://192.168.1.100/.
- **Step 3** When connection is established, the login page appears. Enter your account and password (default: admin/ password).

A NELTA	InsightPower G3 mini SNMP Card
User Name : Password :	admin 
	Sile (F: 10.0.10.118

NOTE 🛃

- 1. If you have previously changed the Mini SNMP's Host Name or IP address, please connect with new settings.
- 2. If the login page is accessible, but you are unable to log in with correct account and password, additional network configuration may be needed. The cause could be the IP subnet of the computer you are logging in to is different from the Mini SNMP's. To solve this issue, please refer to *Chapter 7: Troubleshooting Q3*.



The **InsightPower G3 Mini SNMP Web** includes the information of **Monitor**, **Device** and **System**. Please refer to the following sections *5-1~5-3* for more information.

# 5-1 Monitor

Under the Monitor category, there are Information, History, Environment and About these four items.

## 5-1-1 Information

This includes the information of UPS Properties, Battery Parameters, In/ Out Parameters, Identification, Status Indication, and Power Module. Please note that since different UPSs provide different information, the UPS that you have may not display the same web page.

#### Our Content of the second s

Go to **Monitor**  $\rightarrow$  **Information**  $\rightarrow$  **UPS Properties** to see a status overview of the UPS's major parameters. The values will be updated automatically.



#### Battery Parameters

Go to **Monitor**  $\rightarrow$  **Information**  $\rightarrow$  **Battery Parameters** to view the information of Battery Status, Battery Measurement, Battery Replacement Date.

A NELTA		Global   English S A I+
MONITOR DEVICE	SYSTEM	Sat 01/01/2000 AM 00:15:09
Information UPS Properties	Battery Parameters	Replacement Date
Battery Parameters In/Out Parameters	Battery Status Battery Status: Normal On Battery Time: 0 Seconds	Last Battery Replacement Date: 12/28/2012 (MMIDD/YYYY) Next Battery Replacement Date:
Identification	Battery Measurement	12/28/2013 (MM/DD/YYYY)
Power Module History Environment About	Battery Capacity: 100(*) % Voltage: 23.0(*) V Current: 54(*) A Temperature: 33 °C	

#### In/ Out Parameters

Go to **Monitor**  $\rightarrow$  **Information**  $\rightarrow$  **In/ Out Parameters** to view the information of Input Measurement, Bypass Measurement, Output Measurement and Outlet Bank.

A NELTA		Global   English S A [>
MONITOR DEVICE	SYSTEM	Sat 01/01/2000 AM 00:59:17
MONITOR	Monitor » Information » In/Out Parameters	
Information UPS Properties Battery Parameters In/Out Parameters Identification	Input Measurement P.1 P.2 P.3 Frequency: 59.8 59.7 59.6 Hz Voltage: 116.6 116.5 116.4 V	Output Measurement Output Source: Reducing Frequency: 60.1 Hz Votage: 110.0 V Power: 75.0 kW Loading: 75 %
Status Indication	Bypass Measurement	
Power Module History	P-1 P-2 P-3 Voltage: 116.5 333.3 666.6 V	Outlet Bank
Environment About		

#### Identification

Go to **Monitor**  $\rightarrow$  **Information**  $\rightarrow$  **Identification** to view the information of Identification and UPS Rating.



A NELTA		Global   English S A I
MONITOR DEVICE	SYSTEM	Sat 01/01/2000 AM 01:04:21
MONITOR	Monitor » Information » Identification	
Information UPS Properties Battery Parameters In/Out Parameters Identification Status Indication Power Module	Identification Mode: 16 51 4021110002 Type: 011 line UPS Firmware: 1.2.2 Web Firmware: 02.01.02	UPS Rating VA: 1.1 kVA Prover: 0.8 kW Input Vollage: 112 V Output Vollage: 112 V Friegennory: 00.2 Hz Battery Vollage: 24 V
History		
Environment		
About		

#### Status Indication

Go to **Monitor**  $\rightarrow$  **Information**  $\rightarrow$  **Status Indication** to view the UPS's event list. When an event occurs, its according beacon lights.

			● Global   English 🕥 🛖 🗭 InsightPower G3 mini SNMP Card
MONITOR DEVICE	SYSTEM		Tue 11/28/2017 AM 04:54:25
MONITOR	Monitor » Information » Status	Indication	
UPS Properties		Status Indication	
Battery Parameters In/Out Parameters Identification Status Indication Power Module History Environment About	Buzzer Enabled	UPS Disconnect     Disconnect	Output Over Voltage     Output Over Voltage     Overhold     Overhold     Temperature Out Of Range     Other Warning     Fais Abnormal     Fuse Abnormal     Euse Abnormal     Faise Abnormal     Faise Abnormal     Faise Abnormal     Reductifier Abnormal     Reductifier Abnormal     Reducting Abnormal

#### Power Module

Go to **Monitor**  $\rightarrow$  **Information**  $\rightarrow$  **Power Module** to view the information of every Power Module and the status of Power Module Bypass.

A DELTA				( Ins	Glot	oal   English ower G3 mini	SNMP Care
MONITOR	ICE SYSTEM					Sat 01/01/2	000 AM 01:13:0
MONITOR	Monitor » Information » Power	r Module					
Information UPS Properties Battery Parameters In/Out Parameters Identification Status Indication	Power Module Byp Bypass Voltage/Frequency / Bypass Phase Sequence AI Bypass STS Overfoad Bypass STS Over Temperat Bypass STS Fail	ass Abnormal onormal ure					
Power Module		Pe	wer Mod	ule			
History	ID1	ID2		ID3		ID4	
Environment	PFC Temp.: 11 °C	PFC Temp.: 21	°C	PFC Temp.: 31	°C	PFC Temp.: 41	°C
About	Inverter Temp.: 12 °C	Inverter Temp.: 22	°C Inv	erter Temp.: 32	°C	Inverter Temp.: 42	°C
	Inverter-R Volt: 1.1 V	Inverter-R Volt: 2.1	V Inv	erter-R Volt: 3.1	V	Inverter-R Volt: 4.1	V
	Inverter-T Volt: 1.3 V	Inverter-T Volt: 2.3	v In	rerter-T Volt: 3.3	v	Inverter-T Volt: 4.3	v

## 5-1-2 History

#### Event Log

Go to **Monitor**  $\rightarrow$  **History**  $\rightarrow$  **Event Log**  $\rightarrow$  Page 1/2/3/4... to see events that occur. The existing ones are overwritten when the maximum number of entries (1,0000) is reached. You can also download the entire event log archive (EventLog-year-month-day.csv) recorded during an assigned period of time on your computer.

MONITOR DEVICE	SYSTEM				Sat 01/01/2000 AM 01:
IONITOR	Monitor » History » E	vent Log » Pa	ge 1		
Information				Event Log	
History	@ Page			**	Download
Event Log				~	Download
Cron cog	From 2000-01-	01 000004	AM-DD) To 20	00-01-01 00	(YY-MM-DD) Apply
Lata Log	Date	Time	Type	Level	Event Log
Upgrade Log	2000-01-01	00.00.35	System	Information	admin login to the WEB from 10.0.10.52
Configure	2000-01-01	00.00.23	Device	Alarm	PM ID8: Off
Environment	2000-01-01	00.00.23	Device	Information	PM ID8: Does not exist
1 h a	2000-01-01	00.00.23	Device	Alarm	PM ID7: Off
About	2000-01-01	00:00:23	Device	Information	PM ID7: Does not exist
	2000-01-01	00:00:23	Device	Alarm	PM ID6: Off
	2000-01-01	00.00.23	Device	Information	PM ID6: Does not exist
	2000-01-01	00:00:23	Device	Alarm	PM ID5: Off
	2000-01-01	00.00.23	Device	Information	PM ID5: Does not exist
	2000-01-01	00.00.23	Device	Alarm	PM ID4: Inverter fan fail
	2000-01-01	00:00:23	Device	Alarm	PM ID4: PFC fuse fail
	2000-01-01	00.00.23	Device	Warning	PM ID4: Fault shutdown
	2000-01-01	00:00:23	Device	Warning	PM ID3: PFC fuse warning
	2000-01-01	00.00.23	Device	Alarm	PM ID3: Inverter over temperature shutdown
	2000-01-01	00.00.23	Device	Warning	PM ID3: PFC over temperature warning
	2000-01-01	00.00.23	Device	Warning	PM ID3: Fault shutdown
	2000-01-01	00.00.23	Device	Alarm	PM ID3: Off
	2000-01-01	00.00.23	Device	Warning	PM ID2: Inverter over temperature warning
	2000-01-01	00.00.23	Device	Alarm	PM ID2: PFC over temperature shutdown
	2000-01-01	00.00.23	Device	Alarm	PM ID2: Repair screw open

- **Date:** The date when the event occurred.
- **Time:** The time when the event occurred.



- **Type:** The type of the event occurred.
- Level: The Event Level of the event occurred.
- **Event Log:** The description of the event that occurred.
- Download Event Log from UPS

The Mini SNMP will monitor the status of UPS automatically and display the event log according to its event level. All of these event logs will also be saved in the Mini SNMP. Once user click **Download**, the entire event log archive will be saved in user's computer.

#### Data Log

Go to **Monitor**  $\rightarrow$  **History**  $\rightarrow$  **Data Log** to see all saved device data. You can also download the data archive (DataLog-year-month-day.csv) recorded during an assigned period of time on your computer.

MONITOR DEVICE	SYSTEM						Sat	01/01/2000 AM 02
ONITOR	Monitor » History » Da	ta Log						
Information				Data	Log			
History Event Log Data Log Upgrade Log	Time Period Per Page All  2 Hours Time Range : From 2000-01-01	00:00	6 Hours ( to 2001	8 Hours	12 Hours	Display Item : All Input Output Bypass	Display F All Min. Avg. Max.	roperty :
Configure				A	oply	Battery		
Environment	<< < 200	0/01/01 02:00	~ 2000/01/0	1 04:00 (2	12) >	>>		Download
About	Time	InputFreq AVG	InputVolt AVG	InputAmp AVG	InputPower AVG	OutputFreq AVG	OutputVolt AVG	OutputAmp AVG
	2000-01-01 02:00:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:01:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:02:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:03:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:04:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:05:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:06:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:07:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:08:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:09:00	59.8	116.6	32	1000	60.1	110.0	69
	2000-01-01 02:10:00	59.8	116.6	32	1000	60.1	110.0	69

#### Upgrade Log

Go to **Monitor**  $\rightarrow$  **History**  $\rightarrow$  **Upgrade Log** to see the installation time of the Mini SNMP's all firmware version.

A DELTA			Global   English InsightPower G3 mini S	Son An Contract And Son And S
MONITOR DEVICE	SYSTEM		Sat 01/01/200	00 AM 02:20:04
MONITOR	Monitor » History » Upgrade Log			
Information		Upgrade Log		
History Event Log Data Log	Date Time	Old Version	New Version	
Upgrade Log Configure				
Environment About				

#### Configure

Go to **Monitor**  $\rightarrow$  **History**  $\rightarrow$  **Configure** to clear the history data and event log.

A NELTA				
MONITOR DEVICE	SYSTEM	Sat 01/01/2000 AM 02:22:27		
MONITOR	Monitor » History » Configure			
Information History Event Log Data Log Upgrade Log Configure	History Data	Event Log		
About				

- Clear History Data: Empty the history data log only.
- **Clear Event Log:** Empty the event log only.

## 5-1-3 Environment

Only when an EnviroProbe is used can the Environment page show up.

The Environment page includes Information and Configuration these two items. You can monitor and set up your EnviroProbe via this Environment page. For EnviroProbe information, please refer to the Installation Guide included in the package of the EnviroProbe.



#### Information

Go to **Monitor**  $\rightarrow$  **Environment**  $\rightarrow$  **Information** to see your EnviroProbe's Sensor Information, Input Contacts and Contact Setting.

A NELTA			Global   English S A > InsightPower G3 mini SNMP Card
MONITOR DEVICE	SYSTEM		Sat 01/01/2000 AM 02:36:23
MONITOR	Monitor » Environment » Information	n	
Information		Environment	
History	Sensor Information	Input Contacts	Contact Setting
Environment	Temperature: 27.8 °C	Smoke(R1): Normal Open	Smoke(R1): Normal
Information	82.0 °F	Fire(R2): Normal Open	Fire(R2): Normal
Configuration	Humidity: 51 %	Leak(R3): Normal Open	Leak(R3): Normal
About		Door(R4): Normal Open	Door(R4): Normal

#### Configuration

Go to **Monitor**  $\rightarrow$  **Environment**  $\rightarrow$  **Configuration** to configure your EnviroPobe's Warning Threshold, Alarm Threshold, Title and Type. Please see the table below for detailed information.

			Global   English S ↑ ↑     InsightPower G3 mini SNMP Card
MONITOR DE	EVICE SYSTEM		Sat 01/01/2000 AM 02:39:10
MONITOR	Monitor » Environment » Configu	uration	
Information		Sensor Configuratio	n
History	Sensor	Warning Threshold	Alarm Threshold
Environment	Temperature	35.0 °C	40.0 °C
Information	Humidity	80 %	90 %
Configuration			
About	Input	Title	Туре
	Contact 1	Smoke	Normal Open 🔻
	Contact 2	Fire	Normal Open 🔻
	Contact 3	Leak	Normal Open 🔻
	Contact 4	Door	Normal Open 🔻
		Submit	

## 5-1-4 About

Under About category, there is only one item called Information. You can obtain your Mini SNMP's other information via this channel.

#### Information

Go to **Monitor**  $\rightarrow$  **About**  $\rightarrow$  **Information** to see the version of your Insight-Power G3 Mini SNMP and other information about OpenSSL toolkit and licenses.

A NELTA	Global   English Shares   InsightPower G3 mini SNMF	<b>A [→</b> PCard
MONITOR DEVICE	SYSTEM Sat 01/01/2000 AM	02:45:07
MONITOR	ionitor » About » Information	
Information	About	
History		
Environment	InsightPower G3 mini SNMP Card Version : 02.01.02	
About	InsightPower SNMP Card utilize the "OpenSSL toolkit" functionality provided by "The Open SSL Project" at	
Information	http://www.openssl.org/. SDI acknowledges all patent rights therein."	
	The OpenSSL toolkit is licensed under a dual-license (the OpenSSL license and the original SSLeay license).	
	See the license text.	

## 5-2 Device

## 5-2-1 Management

Since different UPSs have different functions, your UPS may not support the same configurations or control items stated below.

#### Configure

Go to **Device**  $\rightarrow$  **Management**  $\rightarrow$  **Configure** to configure the UPS. The configuration values are saved in the UPS or in the Mini SNMP and these values change UPS operation. The configuration items include the following. Please note that different UPSs may support different configuration options.

	<ul> <li>Global   InsightPowe</li> </ul>	English 🕥 🏦 🕞 r G3 mini SNMP Card
MONITOR	E SYSTEM	Sat 01/01/2000 AM 02:52:37
DEVICE	Device » Management » Configure	
Management Configure	Configure	
Control	Auto-Restart UPS Buzzer Voltage Sensitivity Transfer Voltage Low Battery	
Schedule Event Level	Battery Replacement Date         Bypass Transfer Frequency         Periodic Auto Test         Custor           Economic Mode	nized Battery Test
	Reboot After Power Restore: Boot Delay After Power Restore: Submit Submit Sec Power Restore: Submit Submit Power Restore: Submit Power Restore	to configure the auto

#### Auto Restart

After you click **Submit** to confirm your auto restart setup, the Mini SNMP will send the command to the UPS to enable auto restart.



#### • UPS Buzzer

After you click **Submit** to confirm your buzzer setup, the Mini SNMP will send the command to the UPS to enable buzzer.

#### Voltage Sensitivity

After you set up your voltage sensitivity (there are Normal, Reduced, and Low selections) and click **Submit**, the Mini SNMP will send the command to the UPS to enable the UPS's voltage sensitivity function.

#### • Transfer Voltage

After you click **Submit** to confirm your transfer voltage setup, the Mini SNMP will send the command to the UPS to enable the relevant functions.

#### Low Battery

This configuration saves the setup values in the Mini SNMP and compares with the values received from the UPS. If the received battery level is lower than the assigned one, the Mini SNMP will trigger a low-battery alarm.

#### Battery Replacement Date

After you set up battery replacement dates, the Mini SNMP will send the command to the UPS and save the information in the UPS.

#### • Bypass Transfer Frequency

After you set a tolerance of bypass transfer frequency and confirm your setup, the Mini SNMP will send the command to the UPS. If the UPS transfers to bypass mode and the bypass frequency is out of the tolerance, output will be turned off and critical loads will be protected.

#### • Periodic Auto Test

This configuration is used to set up battery test time. After you confirm your setup, the Mini SNMP will send the command to the UPS and save the setup in the UPS. When the test time is due, the UPS will automatically perform the battery test.

#### • Customized Battery Test

This configuration is used to set up the test parameters and store them in the UPS EEPROM, then select the **Customized Battery Test** command from the **Control**  $\rightarrow$  **Battery Test** web page to perform the customized battery test.

#### • Economic Mode

After you click **Submit** to confirm your economic mode setup, the Mini SNMP will send a command to the UPS to enable/ disable the relevant functions.

#### Control

Go to **Device**  $\rightarrow$  **Management**  $\rightarrow$  **Control** to configure relevant control commands. After you click **Submit**, the Mini SNMP will send the according commands to the UPS to enable relevant functions. The control items include the following.

A DELTA	● Global   English   �   ♠ InsightPower G3 mini SNMP Card
MONITOR	SYSTEM Sat 01/01/2000 AM 01:38:51
DEVICE	Device » Management » Control
Management Configure Control Schedule Event Level	Control Battery Test Shuldown & Restart UPS Only Smart Shuldown Outlet Control Power Fail/Restore Simulation
	Battery Test Type: 10-seconds Test   Description: Submit Submit bettery test.

#### Battery Test

After you select the battery test type and click **Submit**, the Mini SNMP will send the command to the UPS to enable the battery test accordingly.

#### • Shutdown & Restart UPS Only

After you confirm your setup, the Mini SNMP will send the command to the UPS to shut down or/ and restart the UPS.

If you want to shutdown the UPS, please check the UPS Shutdown Delay box and key in delay time.

If you want to restart the UPS, please check the UPS Restart Delay box and key in delay time.

If you want to shutdown and restart the UPS, please check both of the boxes and key in according delay time.



#### Smart Shutdown

The Smart Shutdown configuration is used to safely shutdown all of the connected computers and the UPS. First of all, you should estimate the longest OS Shutdown Delay time for your operating systems that have been installed shutdown software and connected to the Mini SNMP. The Mini SNMP will delay the assigned OS Shutdown Delay time and wait for all operating systems' shutdown. After that, the Mini SNMP will send the assigned UPS shutdown-delay command to the UPS and turn off the UPS.

#### Outlet Control

Press the **Switch Bank** button to control the UPS output relay (on or off).

#### • Power Fail/ Restore Simulation

Click **Power Fail Test** or **Power Restore Test** button to let the Mini SNMP simulate UPS power failure or power restore event. This function allows you to test all of the connected software and verify whether they work properly or not. Please note that the simulation won't influence UPS operation, the UPS remains in its original operation mode and won't transfer to battery mode.

#### Schedule

Go to **Device**  $\rightarrow$  **Management**  $\rightarrow$  **Schedule** to arrange a weekly schedule or specific schedule for the UPS.

#### Weekly

You can select **Stop Action/ Shutdown/ Restart/ 10 seconds test/ Deep battery test**, and set up what day and what time you want the action to be executed every week.

CA DELIA		InsightPower G3				
MONITOR	VICE	SYSTEM				Sat 01/01/2000 AM 00:25
DEVICE	Device »	Management	» Schedule			
Management				Schedule		
Control Schedule Event Level			Schedule: Ø En Schedule Type: Weekd Weekdy: USU Time: 13:48 Action: Resta	ble v MON TUE WED (hb.mm) t v Update Delete	THR 🗷 FRI 📄	SAT
		Enable	Schedule Type	Weekday / Date	Time	Action
	1	Yes	Specific	2017-08-04	13:48	Restart
	2	Yes	Weekly	FRI	13:49	Restart
	2	Yes	Specific	2017-08-04	13:45	Shutdown

#### • Specific

You can select **Stop Action/ Shutdown/ Restart/ 10 seconds test/ Deep battery test**, and set up a specific date (**YYYY-MM-DD**) and time (**hh:mm**) to execute this action. Once the specific schedule has been set, the actions of weekly schedule will be ignored.

MONITOR DEVICE	SYSTEM				
					Sat 01/01/2000 AM 00:35:2
DEVICE	Device » Management	Schedule			
Management			Schedule		
Control Control Schedule Event Level		Schedule: Schedule Type: Date: Time: Action:	Enable     Specific      2017-06-04     (YYYY-MMAD     13-48     (hh.mm)     Restart     •      Add Update Delete	D)	▼ 32 rules max.
	Enable	Schedule Type	e Weekday / Date	Time	Action
	1 Yes	Specific	2017-08-04	13:48	Restart
	2 Yes	Weekly	FRI	13:49	Restart
	3 Yes	Specific	2017-08-04	13:45	Shutdown

#### Event Level

Go to **Device**  $\rightarrow$  **Management**  $\rightarrow$  **Event Level** to set up an event level for the UPS or Environment Sensor. If you want to receive an event notification, please refer to 5-3-3 Notification - SNMP Trap and 5-3-3 Notification - Mail Server.



#### • UPS

You can select an event level (**None, Information, Warning** and **Alarm**), and once the UPS event occurs, the event will be sent according to this level setting.

A NELTA		Global   English S A I InsightPower G3 mini SNMP Car
MONITOR	VICE SYSTEM	Sat 01/01/2000 AM 01:43:
DEVICE	Device » Management » Event Level	
Management	Event Laval	
Configure	Lvent Lever	
Control	Type :   UPS  Environment Sensor	
Pohodulo	Event : UPS temperature out of range	
Event Level	Level: Warning V Update	
	Event Description	Level
	1 UPS temperature out of range	Warning
	2 UPS temperature back to normal	Alarm
	3 Power fail	Alarm
	4 Power restore	Warning
	5 Output abnormal	Alarm
	6 Recover from output abnormal	Alarm
	7 Overload	Alarm
	8 Recover from overload	Alarm
	9 Bypass abnormal	Alarm
	10 Recover from bypass abnormal	Alarm
	11 Turn UPS output off	Alarm
	12 Turn UPS output on	Alarm
	13 UPS shutdown	Warning
	14 Recover from UPS shutdown	Warning

#### • Environment Sensor

You can select an event level (**None, Information, Warning** and **Alarm**), and once the Environment Sensor event occurs, the event will be sent according to this level setting.

		Global	English 🕤 ते [→ erG3 mini SNMP Card
MONITOR	ICE SYSTEM		Sat 01/01/2000 AM 01:47:48
DEVICE	Device » Management » Event Level		
Management		Event Level	
Control	Type : O UPS  Environment Sensor		
Control	Event : Environment sensor insert		
schedule	Level: Information  Vpdate		
Event Level			
	EV	vent Description	Level
	1 Environment sensor insert		Information
	2 Environment sensor remove		Warning
	3 Environment sensor disconnect		Warning
	4 Environment sensor connect		Warning
	5 Environment temperature warning (Warn	ning threshold=%s; Detected temperature=%s)	None
	6 Environment temperature recovered from temperature=%s)	m warning (Warning threshold=%s; Detected	Warning
	7 Environment humidity warning (Warning)	threshold=%s%%; Detected humidity=%s%%)	Warning
	8 Environment humidity recovered from w humidity=%s%%)	arning (Warning threshold=%s%%; Detected	Warning
	9 Environment temperature alarm (Alarm)	threshold=%s; Detected temperature=%s)	Alarm
	10 Environment temperature recovered from temperature=%s)	m alarm (Alarm threshold=%s; Detected	Alarm
	11 Environment humidity Alarm (Alarm thre	shold=%s%%; Detected humidity=%s%%)	Alarm
	12 Environment humidity recovered from Al humidity=%s%%%)	larm (Alarm threshold=%s%%; Detected	Alarm
	13 Environment R1 (%s) alarm		Alarm

# 5-3 System

Only Administrator can see the System page. Under the System category, there are Ethernet, Service, Notification, User and FW Update these five items. You can use them to change or look up the system's relevant settings or records. Please see below for more descriptions.

## 5-3-1 Ethernet

Host

The Ethernet page includes Host, IPv4 and IPv6 these three selections.

#### **NELTA** InsightPower G3 mini SNMP Card MONITOR DEVICE SYSTEM Sat 01/01/2000 AM 03:20:56 SYSTEM System » Ethernet » Host Ethernet System Information Host Host Name : InsightPower IPv4 System Contact : IPv6 System Location : Service Speed & Duplex : Auto Negotiation Notification Submit User FW Update

- Host Name: The Mini SNMP Host Name on the network.
- System Contact: System contact information.
- System Location: System Location information.
- Speed & Duplex: Select the speed and duplex mode of Mini SNMP.

#### IPv4

This allows Administrator to configure the IPv4 parameters for the Mini SNMP.



		💿 Global   English 🕥 🕈 InsightPower G3 mini SNMP		
MONITOR DEVI	CE SYSTEM	Sat 01/01/2000 AM 03:33:		
SYSTEM	System » Ethernet » IPv4			
Host IPv4	Status	Settings DHCP Client:  Enable Disable		
IPv6 Service Notification User FW Update	IP Address : 10.0.10.45 Subnet Mask : 255.255.0 Gateway IP : 10.0.10.252 DNS 1 : 172.16.176.200	IP Address : 192.158.1.100 Subnet Mask : 255.255.55.0 Gateway IP : 192.158.1.254 DNS 1 : 0.0.0		
	DNS 2 : 172.16.0.1 Search Domain :	DNS 2: 0.0.0.0 Search Domain:		

#### • DHCP Client

Enable/ Disable DHCP. If enabled, DHCP server automatically assigns an IP address to the Mini SNMP.

#### • IP Address

The IP address for your Mini SNMP.

#### • Subnet Mask

The subnet mask for your network.

#### • Gateway IP

The IP address for network gateway.

#### • DNS 1

The IP address for Domain Name Server 1.

#### • DNS 2

The IP address for Domain Name Server 2.

#### Search Domain

If the Host Name you provided cannot be found, the system appends the search domain to your Host Name.

#### IPv6

This allows Administrator to configure the IPv6 parameters for the Mini SNMP.

MONITOR DEVICE	SYSTEM		Rat 01/01/2000 AM 04/22
YSTEM	System » Ethernet » IPv6		Sat 01012000 Am 04.22
Ethernet		TCP/IP	
Host	Status		Settings
IPv4	LLA : fe80::223:45ff.fe67:89ab	DHCPv6 :	Enable  Disable
IPv6	DHCPv6 : Disable	IP Address :	
Service	DNS 1	Prefix :	
Notification	DNO 2 ····	Cataway ID :	
User	DNS 2	Gateway IP .	
FW Update	Search	DNS 1 :	
	Domain :	DNS 2 :	
	IP	Search Domain :	
	Address :		Submit

#### • DHCPv6

Enable/ Disable DHCPv6 client. If enabled, DHCPv6 server automatically assigns an IPv6 address to the Mini SNMP.

• IP Address

The IPv6 address for your Mini SNMP.

• Prefix

The prefix length for the IPv6 address.

#### • Gateway IP

The IPv6 address for network gateway.

• DNS 1

The IPv6 address for Domain Name Server 1.

• DNS 2

The IPv6 address for Domain Name Server 2.

Search Domain

If the Host Name you provided cannot be found, the system appends the search domain to your Host Name.



## 5-3-2 Service

The Service page includes Web, Console, FTP, Time, SNMP and SNMPv3 USM these six selections.



#### Web

This allows Administrator to enable/ disable HTTP and HTTPS communication protocols.

		Global   English S A P Card Control
MONITOR DEVICE	SYSTEM	Sat 01/01/2000 AM 04:41:36
SYSTEM	System » Service » Web	
Ethernet	Web	
Service	HTTP :      Enable      Disable	
Web	HTTPS :      Enable      Disable	
Console	HTTP Port : 80 (Default : 80)	
FTP	HTTPS Port : 443 (Default : 443)	
Time		
SNMP	Web Refresh Period : 8 Seconds	
SNMPv3 USM	Submit	
Notification	Jubint	
User		
FW Update		

HTTP

Enable/ Disable HTTP connection.

HTTPS

Enable/ Disable HTTPS connection.

HTTP Port

Assign a HTTP port number (default: 80).

HTTPS Port

Assign a HTTPS port number (default: 443).

Web Refresh Period

Web refresh interval.



This item allows the Administrator to enable/ disable Telnet and SSH communication protocols.

		Global   English S A I
MONITOR	EVICE SYSTEM	Sat 01/01/2000 AM 04:58:42
SYSTEM	System » Service » Console	
Ethernet	Console	
Service	Telnet:      Enable      Disable	
Web	Telnet Port : 23 (Default : 23)	
Console	Telnet Timeout : 60	
FTP		
Time	SSH:      Enable      Disable	
SNMP	SSH Port: 22 (Default: 22)	
SNMPv3 USM	Submit	
Notification	Jublik	
User		
FW Update		

• Telnet

Enable/ Disable Telnet connection.

• Telnet Port

Assign a Telnet port number (default: 23).

• Telnet Timeout

The timeout of Telnet connection.

• SSH

Enable/ Disable SSH connection.

• SSH Port

Assign a SSH port number (default: 22).

#### FTP

This allows Administrator to enable/ disable FTP communication protocol.

A NELTA		● Global   English S ↑ (→ InsightPower G3 mini SNMP Card
MONITOR DEV	ICE SYSTEM	Sat 01/01/2000 AM 08:52:51
SYSTEM	System » Service » FTP	
Ethernet	FTP	
Service	FTP : O Enable O Disable	
Web	FTP Port: 21 (Default: 21)	
Console		
FTP	SFTP :      Enable      Disable	
Time	SSH Port : 22 (Default : 22)	
SNMP	Submit	
SNMPv3 USM		
Notification		
User		
FW Update		



- FTP Enable/ Disable FTP connection.
- FTP Port Assign a FTP port number (default: 21).
- SETP

Enable/ Disable SETP connection.

• SFTP Port

Assign a SFTP port number (default: 22).



You can manually set the time and date, or allow automatic time synchronization with SNTP servers. Please note that if the SNTP server is not responsive, the event and data log will not register even when SNTP is enabled.

CA NELTA		InsightPower G3 mini SNMP Card
MONITOR	EVICE SYSTEM	Sat 01/01/2000 AM 09:07:05
SYSTEM	System » Service » Time	
Ethernet	System Time : SNTP  Manual Simple Network Time Server	Manual
Veb Console FTP SNMP SNMP/3 USM Notification User FW Update	Time Zene GMT Dubin Lisbon London Primary Time Server: POOL NTP ORG Secondary Time Server: Period Time. 6 Hours • Update time to UPS	Set Current Time           Ref 4rd b cull PC Time           Date:         (60642017)           Time:         13:13:07           (MMDD/YYY)           Submit
	Enable Daylight Saving (MM/DD): From 01/01 00:00 v to 01/01 00:00 v	

#### Simple Network Time Server

- 1) **Time Zone:** From the dropdown menu, select the time zone for the location where the Mini SNMP is located
- 2) Primary/ Secondary Time Server: Two time servers can be added. Every Period Time, the Mini SNMP synchronizes with the first responding server.
- 3) **Period Time:** The time interval that the Mini SNMP synchronizes with the SNTP server

- 4) **Update time to UPS:** Determine whether the time also synchronizes with the UPS.
- 5) **Enable Daylight Saving:** Check to enable daylight saving time. During this period, the Mini SNMP adjusts time forward one hour.
- Manual

If a time server is not accessible, you can still manually set time and date. Please note that every time you restart the Mini SNMP's network module, time and date is reinstated to previous assigned settings.

#### SNMP

The Mini SNMP supports SNMP protocol, which is commonly used to monitor network devices for conditions that call for administrative attention. To prevent unauthorized access, you can specify the NMS IP addresses that are allowed to access, their community strings and access levels. The maximum number of IP entries is 16.

NOTE If IP address \* is enlisted, the NMS IP access restriction is ignored. The Mini SNMP checks the community string to identify the access level and permission according to your setting.

<b>A</b> NELTA					Insig	htPower G3 mini SNMP Ca
MONITOR D	EVICE	STEM			-	Sat 01/01/2000 AM 10:01
SYSTEM	System » Se	rvice » SNMP				
Ethernet			Po	ort Configurat	ion	
Service		SNMP S	erver Port 161	(Default :	161)	Submit
Web		Down	ninged MIR: LIPSy5	LIPSVA	PEC1629	
Console		500	<u>01010</u>	01014	10 01020	
FTP				NMS Liet		
Time				Nina Liat	IP address * ren	resents it allows to receive the
SNMP		Allowed			SNMP packets f	from any host.
SNMPv311SM			IP Prefix : 0			
Notification		Commun	ity string : public			
liser		Aco	ess Level . Read On	ny •		
EW Lindate				Jpdate Del	ete	
1 III opanie						
						▼ 16 rules max.
		NMS IP	IP Prefix		Community	Access Level
	1		0		public	Read Only
	2	10.0.100.1	0		public	Read Only
	3	10.0.100.2	0		public	Read Only
	5	10.0.100.3	0		public	Read Only
	6	10.0.100.5	0		public	Read Only
	· · · · · ·	10.0.100.0	-			



#### SNMPv3 USM

SNMPv3 offers features such as the encryption of packets and authentication to improve security. The SNMPv3 USM (User Session Management) allows you to assign sixteen User Names whose access is granted via SNMPv3 protocol. You can also define their respective Security Levels, Auth Passwords, Priv Passwords and Access Levels.

MONITOR DEVICE	SYSTEM Sat 01/01/2000 AM	0:06:
SYSTEM	ystem » Service » SNMPv3 USM	
Ethernet	SNMPv3	
Service	Context Name : cn1027	٦.
Web	Engine ID : 800008CE030023456789AB	
Console		
FTP	IISM List	d -
Time		1
SNMP	User Name : (16 bytes max.)	
SNMPv3 USM	Security Level Induction	
Notification	Priv Paceword (	
User	Access Level : Disable T	
FW Update		
	Add	

## 5-3-3 Notification

The Notification page includes SNMP Trap, Mail Server and Syslog these three selections.

#### SNMP Trap

SNMP Trap alerts users to event occurrences in your monitored environment. To enable SNMP Trap, you must add Target IP addresses to the Target IP list. Specify the Community String, Trap Type, MIB, SNMPv3 User Name, Port, Event Level, and click **Add**. If you wish to update or delete a Target IP address, specify the IP address in the Target IP list, and click **Update** or **Delete**. The maximum number of Target IP addresses is 256.

MONITOR	EVICE SYSTEM	Tue 11/28/2017 AM 04:57:3
SYSTEM	System » Notification » SNMP Trap	
Ethernet Service Notification SNMP Trap Mail Server Syslog	Target IP : Trap Type: MB: V SNMPV3 User Name: V	SNMP Trop Target List Community String Port: 182 UPduit: 162) Event Level: None
User FW Update	* click one row of fields if you want to modify it	Add v 256 rules max. Type Port MIB SNMPv3 User Level

# NOTE → The Mini SNMP supports SNMPv1, SNMPv2c and SNMPv3 traps to satisfy most of customer's environments. If you select the SNMPv3 trap, please specify an SNMPv3 USM User Name. You can use Event Level to determine what event notifications should be sent to which Target IP Address. Three event levels are listed as follows: None: No event notifications are sent to the target address. Information: All event notifications are sent to the target address. Warning: Both Warning and Alarm event notifications are sent to the target address. Alarm: Only Alarm event notifications are sent to the target address. You can go to Device → Management → Event Level to change the event level.

#### Mail Server

NOTE 🗲

-

You can set up an SMTP Server and specify a list of E-mail recipients who will receive notifications when events occur. The maximum number of recipients is 8.

If a DNS server is not available in the network, you need to manually assign an SMTP server address to enable the E-mail notification system.





#### • SMTP Server Name or IP

If a Host Name is entered, a **DNS IP** should be added. Please see **5-3-1 Eth**ernet.

#### SMTP Server Port

The mail server's port number.

#### • Mail Title

The subject of the notification E-mail.

#### • Sender E-mail

The sender's E-mail address.

#### Account

The mail server login account.

#### • Password

The mail server login password.

#### Receiver

The recipient's E-mail addresses.

#### • Event Level

Select the Event Level when triggered, an E-mail notification is sent to the corresponding recipient.

- 1) Information: All event notifications are sent to the target address.
- 2) **Warning:** Warning and Alarm event notifications are sent to the target address.
- 3) Alarm: Only Alarm event notifications are sent to the target address.

#### • Daily Event Log

If this is selected, all event logs in the same day will be packaged as an attachment and sent to the specified receiver at 0:00 AM next morning.

#### • Daily Data Log

If this is selected, all data logs in the same day will be packaged as an attachment and sent to the specified receiver at 0:00 AM next morning.

#### Syslog

Syslog is used to store the event log on remote Syslog servers. This will not affect the local event log. After enabling the Syslog, please set up a server IP address. You can set up at maximum four Syslog servers at a time.

A NELTA				Global   English InsightPower G3 min	S ♠ ↔
MONITOR DEVICE	System » Notification » System			Sat 01/01/	2000 AM 00:29:23
Ethernet	System # Notification # Systog	og Server			
Service	Syslog Server: O Enable 🖲 🛙	lisable			
Notification	Syslog Server 1:	: 514	(Default : 514)		
SNMP Trap	Syslog Server 2:	: 514			
Mail Server	Syslog Server 3:	: 514	-		
Syslog	Syslog Server 4:	: 514			
FW Update					

## 5-3-4 User

#### Local

This page allows user to manage the Accout Name, Password and Login Limitation for local authentication.

MONITOR DEVICE	SYSTEM			Sat 01/01/2000 AM 0
SYSTEM	System » User » Loca	ĺ		
Ethernet			User	
Service Notification	Privilege	Account Name (16 characters max.)	Password (8~64 characters)	Login Limitation
User Local	Administrator	admin	Press for change	<ul> <li>Only in This LAN</li> <li>Allow Any</li> </ul>
FW Update	Device Manager	device	Press for change	<ul> <li>Only in This LAN</li> <li>Allow Any</li> </ul>
	User	user	Press for change	<ul> <li>Only in This LAN</li> <li>Allow Any</li> </ul>

#### • Administrator

Allowed to modify all settings.

#### Device Manager

Allowed to modify device related settings.

#### Read Only User

Only allowed to view settings without the permission to make chages.



## 5-3-5 FW Upgrade

The Upgrade page shows the Mini SNMP's current firmware version. The Administrator can use this page to update the Mini SNMP's firmware. Click **Choose File**, select the file you with to upload, and click **Upload**. The upgrade process should take about one minute.

A DELTA			Global   English Share Control of the second sec		
MONITOR DEVICE	SYSTEM		Sat 01/01/2000 AM 03:30:0		
SYSTEM	System » FW Update » Update SI	MP IPv6			
Ethernet Service	Current Version: 02.01.	2			
Notification	Upload Firmware				
User FW Update	Idle	Nothing	0 %		
Update SNMP IPv6	Version: - File name: -				
	Firmware File: 🙀	機案 未選擇任何權案 Uplo	Jad		

# Chapter 6 : SNMP Device Firmware Upgrade

With the provided program EzSetting, you can effortlessly perform a firmware upgrade on your SNMP devices via LAN. Please refer to the following instructions.

InsightPower EzSetting v2.0.25	– 🗆 X
Press the "Discover" button to search for all of the SNMP devices in the LAN.         Discover           For Configuration and Upgrade, the Account and Password for each device must first be entered. Click on a line item then press the "Modify?button; repeat for each device required.         Discover           Use "Configuration" to set basic network parameters, such as IP Address, server ports, date/time, enable or disable services, etc.         Configuration           Use "Upgrade" to upload a firmware file, then transmit it to a single selected device.         Upgrade	LAN 192.168.56.1  Subnet: 192.168.56.0 IPv4 Mask / IPv6 Prefix length: 255.255.25.0
Device List	
IP Address Host Name Account Password Version Model/Product	Add a new SNMP device to the list Modify Set the account and password for the selected device. Remove Remove the selected device
	from the Device List.
Select All Deselect All	
To update the firmware of multiple devices, select their checkboxes in the Device List then press the "Batch Upgrade" button.           To configure multiple devices, select their checkboxes in the Device List then press the "Batch Configuration" button.	Batch Upgrade Batch Configuration

Step 1 The subnet mask allows you to define the device discovery range in the specified subnets. Make sure the SNMP device you wish to upgrade is in the subnet that is specified. If it is not, please modify the subnet and subnet mask.



#### **Step 2** Click **Discover**. A list of SNMP devices is shown.

(응) InsightPowe	er EzSetting	v2.0.25						- 🗆 🗙
Pres	the "Disco	ver" button to sea	rch for all of t	he SNMP devi	ces in the LA	N. Discove	r	LAN
							10.0.10.52 ~	
For C	For Configuration and Upgrade, the Account and Password for each device must first be entered. Click on a line item then press the "Modify?button: repeat for each device required. Subnet:					Subnet:		
Use "Configuration" to set basic network parameters, such as IP Address,					10.0.10.0			
serve	server ports, date/time, enable or disable services, etc.					IPv4 Mask / IPv6 Prefix length:		
Use '	Use "Upgrade" to upload a firmware file, then transmit it to a single selected Upgrade 255.255.255.0					255.255.255.0		
uevic	с.							
Device List								
IP Addres	5	Host Name	Account	Password	Version	Model/Product	^	Add
10.0.10	.80	DESKTOP-1L		?????????	02.00.03b	EMS3000		Add a new SNMP device to
10.0.10	.31	TEST-PC		77777777	02.00.02y	EMS3000		the list
192.16	3.1.110	EMS3000		????????	02.00.02k	EMS3000		Mar. 116 .
10.0.10	.34	WIN-JF3F00		77777777	02.00.03b	EMS3000		Moully
10.0.10	.73	IE11WIN7		?????????	02.00.02s	EMS3000		Set the account and password
10.0.10	.142	MCIS-TEST1		77777777	02.00.02x	EMS3000		for the selected device.
010.00		InsightPower				Mini-SNMP		Remove
10.0.10	.15	EMS3000		????????	02.00.02k	EMS3000	~	Romayo the selected daylog
<							>	from the Device List.
Select A	ll D	eselect All						
To update the firmware of multiple devices, select their checkboxes in the Device List then press Batch Upgrade" button.								
To configure multiple devices, select their checkboxes in the Device List then press the "Batch Configuration Batch Configuration								

**Step 3** Select a device from the Device List, click **Modify**, and enter Administrator account and password.

IP & Account	×				
SNMP Device Address					
IP Address: 10 . 0 . 10 . 77					
Administrator Account					
Account: Default: admin					
Password: Default: password					
ОК					

Step 4 Click Upgrade. The upgrade dialog box pops up. Click Browse to select a valid firmware binary file. Verify the firmware version shown under File Information, and then click Upgrade Now to continue.

Upgrade	×			
Select Firmware File				
Firmware File Name:				
D:\TRI\Embeded_Linux\snmp\PDU-dump\build\pdu1				
File Information:				
Product: pdu****, Ver: 01.12.12e				
Upgrade Now Exit				

**Step 5** The upgrade process should take about 20 seconds.



**Step 6** When the upgrade is completed, the following dialog box appears. It takes about 1 minute for the device to reboot.





#### Q1. How to set up an SNTP server on my workstation for the Mini SNMP to synchronize?

To enable SNTP services in Windows, go to **Start**  $\rightarrow$  **Control Panel**  $\rightarrow$  **Add**/ **Remove Programs**  $\rightarrow$  **Add**/ **Remove Windows Components**  $\rightarrow$  **Networking Services**  $\rightarrow$  check **Simple TCP**/ **IP Services**  $\rightarrow$  **OK**. To enable time synchronization, you need to set SNTP time server addresses in **Time Server**. Please refer to **Chapter 4: System Configurations**.

# Q2. How to make sure the linking between the Mini SNMP and the UPS is established?

If the linking between the Mini SNMP and the UPS is correctly established, the yellow LED indicator should flash rapidly. If not, confirm that the device ID setting on the Mini SNMP and the UPS is consistent.

C:\>ping 172.16.186.230
Pinging 172.16.186.230 with 32 bytes of data:
Reply from 172.16.186.230: bytes=32 time=2ms TTL=64
Reply from 172.16.186.230: bytes=32 time=2ms TTL=64
Reply from 172.16.186.230: bytes=32 time=4ms TTL=64
Ping statistics for 172.16.186.230:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
 Minimum = 2ms, Maximum = 4ms, Average = 2ms
C:\>

#### Q3. I can access the InsightPower G3 SNMP Web, but I cannot log in.

Please check the IP addresses of the Mini SNMP and the workstation on which you are trying to log in. By default, they must be within the same LAN so you can connect via the web interface. You can enable external connections to solve this issue. To do this, launch EzSetting and change User Limitation to **Allow Any**, as shown below.

Configuration	:	K
System Identification	IPv4	
*Host Name(NetBIOS): InsightPower	BOOTP/DHCP Client:	
System Contactor:	*IP Address: 192 . 168 . 1 . 100	
System Location:	*Subnet Mask: 255 . 255 . 255 . 0	
Date/Time	Gateway IP: 192 . 168 . 1 . 254	
○*SNTP    Manual	DNS IP: 0 . 0 . 0 . 0	
Time Zone: GMT Dublin,Lisbon,London 🗸	IPv6	
*1st Time Server Name or IP: POOL.NTP.ORG	DHCPv6 Client: O Enable   *Disable	
2nd Time Server Name or IP:	*IP Address: ::	
Set Current Time: Date 08/04/2017 (MM/DD/XXXX)	*Prefix Length: 0	
Time 12:12:07 (http://////	Gateway IP: ::	
11me 13.13.07 (nn:mm:ss)	DNS IP: ::	
User Limitation	System Configuration	
Administrator: O In The LAN   Allow Any		
Device Manager: O In The LAN <ul> <li>Allow Any</li> </ul>	HTTP Server:  Enable  Disable	
Read Only User: O In The LAN       O Allow Any	l einet Server:   Enable  Disable	
Poset to Default SNMPv2 OK Cancel	HTTP Server Port: 80	
	Telnet Server Port: 23	
* Fields marked with an asterick indicate recommended set	tings and inputs	
rields marked with an asterisk indicate recommended set	ungs and inputs.	

#### Q4. Unable to connect to the Mini SNMP via its Host Name?

If you just assign a new static IP address to the Mini SNMP, you may need to refresh the NetBIOS table so that it corresponds with the new setting. Although Windows updates its NetBIOS table periodically, you can still manually force it to refresh by entering the following command **nbtstat** –**R** in DOS prompt mode. After that, you can now connect to the Mini SNMP by its Host Name. Please also ensure that the Host Name assigned to the Mini SNMP does not exceed 16 bytes.

#### Q5. How to check my workstation's IP address?

For Windows, please enter **ipconfig /all** in DOS prompt mode. For UNIX, please enter **ifconfig** in shell. You should be able to check your IP and MAC (Physical Address) now.

```
Physical Address. . . . . . . : 00-23-4D-A2-3A-2C

DHCP Enabled. . . . . . . . : Yes

Autoconfiguration Enabled . . . : Yes

Link-local IPv6 Address . . . . : fe80::ad55:5b9b:74c6:e5fc%12(Preferred)

IPv4 Address. . . . . . . : 172.16.186.97(Preferred)

Subnet Mask . . . . . . . : 255.255.254.0

C:\>
```



#### Q6. Unable to ping the Mini SNMP from my workstation?

If the Mini SNMP is non-responsive, check the following:

- 1) If the green LED indicator on the Mini SNMP is OFF, check if the network cable is correctly connected from the Mini SNMP to the router or hub.
- 2) If the green LED indicator is ON, the current IP address could be unreachable. Manually assign a valid IP address to the Mini SNMP.
- 3) If the green LED indicator flashes and (1) your network configuration includes a DHCP server, make sure the DHCP service is working properly; (2) Otherwise, make sure the assigned IP is not already taken on the network. Please note that if the current configuration is not useable, the Mini SNMP will reset to default IP settings (IPv4 address: 192.168.1.100/ net mask: 255.255.255.0/ gateway: 192.168.1.254).
- 4) If the problem persists, use a network cable to cross link your Mini SNMP and the workstation. Ping the Mini SNMP's default or static IP address, according to your configurations. If a ping response is successfully received, indicating that the Mini SNMP is working properly, check your network equipment. If not, contact your local dealer or service personnel for assistance.

#### Q7. Unable to perform a SNMP Get command?

Refer to **5-3-2 Service** to check SNMP settings. Make sure that the workstation's IP address is added to the NMS IP list with Read or Read/ Write access. The community string on the workstation and the Mini SNMP must match.

#### Q8. Unable to perform a SNMP Set command?

Refer to **5-3-2** Service to check SNMP settings. Make sure that the workstation's IP address is added to the NMS IP list with Read/ Write permission. The community string on the PC and the Mini SNMP must match.

#### Q9. Unable to receive SNMP trap?

Refer to **5-3-3 Notification** to check SNMP Trap settings. Make sure that the workstation's IP address is added to the Target IP list.

#### Q10. Forgot Administrator's account and password?

You can reset Administrator's account and password via text mode. Refer to **4-4 Configuring through COM Port** to establish a COM port connection with the Mini SNMP. When the login information is prompted, key in **rstadmin** within 60 seconds and press **enter**. The Administrator account and password are now reset to default (admin/ password).

#### Q11. How to test SNMPv3 in Linux?

Before you can access the SNMP OID (Object Identifier) via SNMPv3 protocol, the SNMPv3 USM table must be organized. Please refer to *5-2-2 Notification* – *SNMPv3 USM* for more information.

To test SNMPv3 in Linux, launch shell and key in the following command:

```
snmpwalk -v 3 -u <user> -l authPriv -A <pass-
word> -X <password> -n <context name> -t 3
<ip>1.3.6.1.2.1.1.1.0
```

-v: 1 for SNMPv1, 3 for SNMPv3.

-I: Follow the security levels. They are: noAuthNoPriv, authNoPriv and authPriv.

-u: The user name which is assigned from SNMPv3 USM table.

-A: The Auth Password which is assigned from SNMPv3 USM table.

-X: The Priv Password which is assigned from SNMPv3 USM table.

-n: The Context Name which is assigned from SNMPv3 USM table.

-t: Timeout in seconds.

<ip>: The IP address of the Mini SNMP.

<oid>: The next available SNMP OID (for example: 1.3.6.1.2.1.1.1.0). Please refer to the RFC1213 MIB.



# **Appendix A : Specifications**

Model Name	InsightPower G3 Mini SNMP	
Power Input	12 Vdc	
Power Consumption	2 Watt (Max.)	
Network Connection	RJ-45 jack connector (10/ 100M)	
Physical		
Size (W x D X H)	87 mm x 70 mm x 30 mm	
Weight	75 g	
Environmental		
Operating Temperature	0 ~ 60°C	
Storage Temperature	-40 ~ 125℃	
Operating Humidity	0 ~ 90 % (Non-condensing)	

# NOTE F

\* Refer to the rating label for the safety rating.

\* All specifications are subject to change without prior notice.

# **Appendix B : Warranty**

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship within the warranty period. If the product has any failure problem within the warranty period, Seller will repair or replace the product at its sole discretion according to the failure situation.

This warranty does not apply to normal wear or to damage resulting from improper installation, operation, usage, maintenance or irresistible force (i.e. war, fire, natural disaster, etc.), and this warranty also expressly excludes all incidental and consequential damages.

Maintenance service for a fee is provided for any damage out of the warranty period. If any maintenance is required, please directly contact the supplier or Seller.

No. 353413900910 Version : V 9.10 UM Date : 2017\_12\_01



**WARNING :** The individual user should take care to determine prior to use whether the environment and the load characteristic are suitable, adequate or safe for the installation and the usage of this product. The User Manual must be carefully followed. Seller makes no representation or warranty as to the suitability or fitness of this product for any specific application.



