Environmental Monitoring Device Quick Guide

V. 1.0

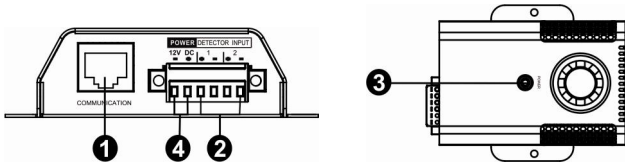## 1. Product Outlook

❶Communication port
❷Input dry contact terminal
❸Device status indicator
❹DC input connector

2. Product Introduction

This environmental monitoring device (EMD) is a connectivity device to remote monitor temperature, humidity, and smoke via SNMP manager. It also provides two dry contacts to receive signals from up to 2 compatible devices such as security system and alarm system.

- Plug & use for simple installation with SNMP manager
- Monitor temperature and humidity to protect your precious equipment
- Allow two contact closure signals for user-defined usage
- Management software to remote monitor temperature and humidity status via web browser
- Measure temperatures between 0 to 100℃ with an accuracy of ±1.5℃
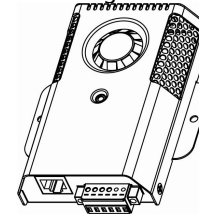- Measure relative humidity between 10 to 90% RH with an accuracy of ±3%

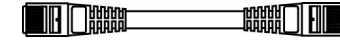## 3. Function Diagram
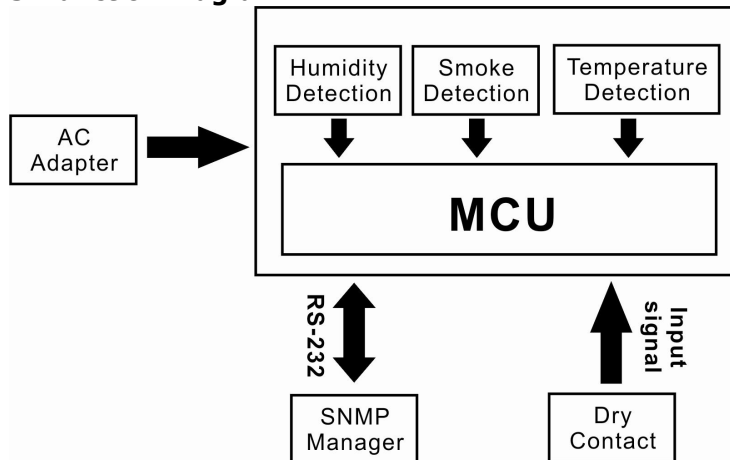
4. Installation

Inspection
Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. You will find following items inside of package:

Cable spec: UL2835 24AWG*4PAIRS+AEB

Plug Type: 8P8C 3U*2PCS

Environmental monitoring device   3m-length of network cable

*Network cable is replaceable with the standard Cat. 5 cable (max. length 15m).

Pre-installation
Before making connection to environmental monitor device, make sure the UPS is already installed with SNMP manager. Please check SNMP manager for SNMP card installation.

Wall-mounting
Step 1: Use a vertical line and the length of the line must be 82 mm and mark the two ends on the wall. (See **chart 1**)
Step 2: Drill two marks by screws.
Step 3: Mount the unit by positioning the key-hole slots over the mounting screws. (See **chart 2**)
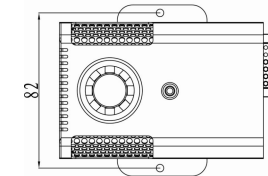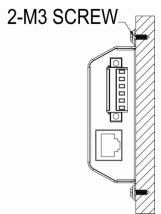
Chart 1

Chart 2
2-M3 SCREW

Connect to power
Follow **chart 3** to connect 12VDC power source. Check section 8 for the specification of DC power sourrce.
NOTE: To guarantee safety operation, please use the appropriate DC wire with UL2468 #24AWG spec.
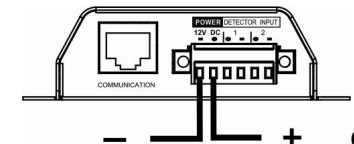

Chart 3

SNMP Connection
Connect supplied network cable from communication port of environmental monitor device to RS-232 port of SNMP manager. Use another network cable to connect from RS-485 port of SNMP manager to LAN. (Refer to **chart 4**)
NOTE: If supplied network cable is not long enough for your application, you may substitute another longer cable (not exceed 15m)

Chart 4
UPS

LAN

Operation
After making connection, green LED will light up and the unit starts to operate.
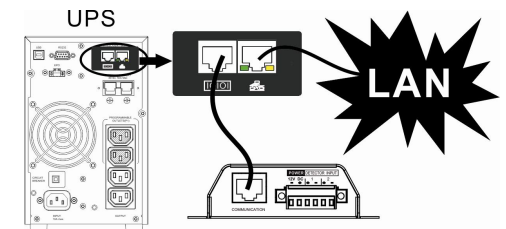
5. Monitoring Software Operation
Software Installation
After unit is connected well, please follow below steps to install monitoring software from the internet.

1. Go to the website **http://www.power-software-download.com**
2. Click ViewPower Pro software icon and then choose your required OS to download the software.
3. Follow the on-screen instructions to install the software.
4. When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray, near the clock.
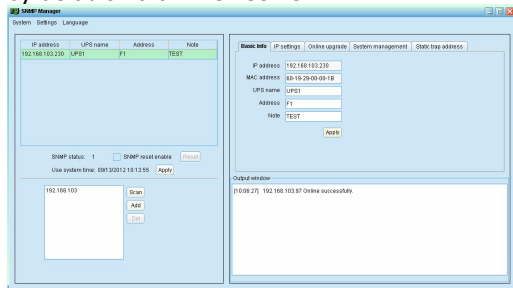
Operation
Step 1: Double click "ViewPower Pro" icon to launch the software.
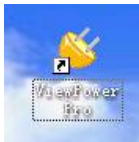
Step 2: SNMP manager will be automatically activated. Select "SNMP manager" by clicking right button of the mouse.
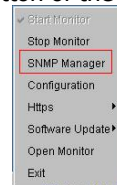
Step 3: Enter specific IP address to search all SNMP devices in LAN. The SNMP manager will automatically collect the IP address from sever by default via a DHCP server.
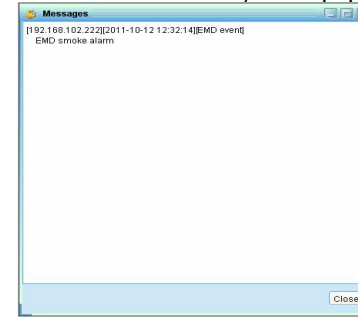
Step 4: After SNMP manager is successfully detected by SNMP manager, select "Open Monitor" by clicking right button of the mouse.

Step 5: When launching ViewPower Pro software, click "Environmental information" icon to view status.
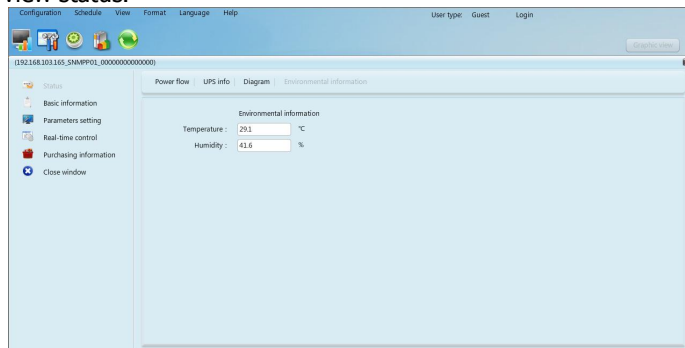
If it's detected smoke, it will pop up a message as below:

6. Trouble Shooting

Problem	Possible Cause	Solutions
It displays 0 in the environmental information section of software.	SNMP card is not connected well.	Make sure SNMP card is firmly connected in the UPS.
	Network cable or DC input connection is not connected well.	Make sure network cable is connected well and DC input connection is well.
LED is not lighting or LED is flashing.	Input power is not stable.	Check if DC input is connected firmly. If the problem persists, please contact local dealer.
Temperature or humidity accuracy is out of range.	Temperature or humidity sensor is broken.	Please contact local dealer directly.
Smoke detection is not working.	Smoke sensor is broken.	Please contact local dealer directly.

7. Specification of Environmental Monitoring Device

Model	EMD
Nominal DC input	12VDC
DC input current	0.5 A min.
Temperature measurement range	0 ~ 100℃
Temperature measurement accuracy	±1.5℃
Humidity measurement range	10% ~ 90% RH
Humidity measurement accuracy	±3%
Smoke alarm	Ionization sensor
Communication	RS232 with ASCII protocol
Acceptable cable length	15 m
Dimension (DxWxH) mm	116 x 90 x 27
Net weight	209 g

8. Specification of DC Power Source

	Minimum	Nominal	Maximum
Output Voltage (@ 0A)	11.4 VDC	12 VDC	12.6 VDC
Output Voltage (@ 1A)	11.4 VDC	12 VDC	12.6 VDC