# OWNER'S MANUAL

## EZ-PDU's

EZ-PDU's

# TABLE OF CONTENTS

**1. PRODUCT OVERVIEW** ..... **3**

**2. SAFETY INSTRUCTIONS** ..... **4**

**3. NETWORK METERING** ..... **5**

3.1 NETWORK METER FUNCTIONS ..... 5

3.2 INITIALIZATION ..... 6

3.3 HARDWARE SETTINGS ..... 6

3.4 DAISY CHAIN SETTINGS ..... 7

3.5 SOFTWARE OVERVIEW ..... 7

3.6 SNMP ACCESS ..... 12

3.7 TELNET ACCESS ..... 16

**4. SPECIFICATIONS** ..... **17**

**5. WARRANTY** ..... **18**

# 1. PRODUCT OVERVIEW

ArcTiv EZ-PDU's are designed for easy configuration to meet the exact application requirements. Optional local or network meters can be added during deployment or field-upgraded. Each PDU supports:

- Customizable with international and local plugs and outlets to the exact application requirement
- Compatible with DCIM's via ModBus and SNMP communication
- Field upgradable network module

**Benefits include:**

| | |
|---|---|
| Power Monitoring | Energy and power monitoring with 1% accuracy |
| Alarms | User-defined thresholds automate actions before overload |
| Remote Monitoring | Securely access real-time power consumption |
| Environmental Monitoring | Connects to rack sensors for system management |
| Daisy Chain | Connect up to 5 PDU's with a single IP address to reduce cabling costs |
| Field Upgradeable | Upgrade the network module |
| Full Range | International and local plugs and outlets |
| Easy Installation | Tool-less 0U mounting compatible with Server and Network Racks |
| Safe Operation | Locking C13 outlets prevent accidental removal of power cables |

## 2. SAFETY INSTRUCTIONS

- Keep the Basic & Metered PDU's in a controlled indoor environment, away from moisture, temperature extremes, flammable liquids and gasses, conductive contaminants, dust and direct sunlight.
- Before installing the PDU's, check the existence of earth wires before the power supply.
- Check that the marked nominal voltage is the same as the service voltage in the country or region.
- Check that the supply is properly grounded and the power cord, plug and socket are in good condition.
- Check that the max power of the load equipment is less than the max output power of the PDU.
- Do NOT install the PDU where excessive moisture is present.
- Only use supplied brackets for mounting
- For PDU's with surge protection modules, check the following 3 indicators
    - Red Light: Absence of earth wire of the power supply
    - Yellow Light: Live wire (L) and Neutral Wire (N) are not in the correct positions.
    - Green Light: When disabled, means the failure of the lightning protection circuit.
- For pluggable equipment, the socket-outlet shall be installed near the equipment and easily accessible.
- For Pluggable or permanently connected equipment:
    - Short Circuit / Overcurrent Protection: Branch circuit breaker or branch fuse, rating, number of poles, special characteristics
- Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

# 3. NETWORK METERING

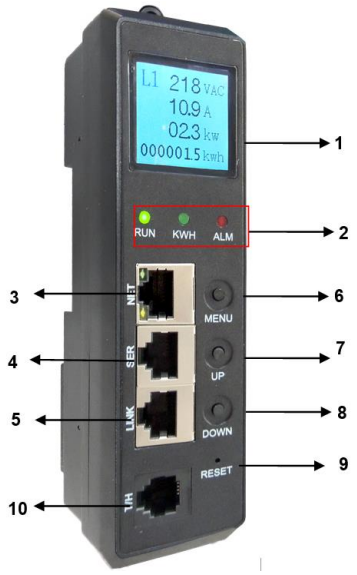
The network metered EZ-PDU's are able to monitor the following parameters:

- Input voltage (V)
- Total load current (A)
- Total power (kW)
- Energy consumption (kWh)
- The environment inside the enclosure

Target power ranges for the EZ-PDU's include:

- Single Phase (90VAC – 240VAC) up to 63A
- Three-Phase (270VAC – 400VAC) up to 32A

## 3.1 NETWORK METER FUNCTIONS




1. **Screen:** TFT screen;
2. **Indicator:** Run, kWh, Alarm
3. **NET:** Ethernet port
4. **SER:** Daisy-chain port
5. **LINK:** Daisy-chain port
6. **MENU:** Menu Key
7. **UP:** Function set key
8. **DOWN:** Position selection key
9. **RESET:** Restart button
10. **T/H:** Temperature/Humidity sensor port

Function of Network Meter

| Item | Function | Description |
|---|---|---|
| RUN | Run indicator | Flash frequency is 1 second |
| KWH | kWh indicator | Flash frequency depends on the load |
| ALM | Alarm indicator | Light is on if there is an alarm occurring |
| NET | Ethernet port | LAN/WAN Ethernet communication port |
| SER | Daisy-chain port | RS-485 daisy-chain communication port |
| LINK | Daisy-chain port | RS-485 daisy-chain communication port |
| MENU | Menu key | To view the LCD displayed information, light up the LCD background, or save the configuration, use the MENU button as an ENTER key.<br>**Restore to factory settings:** Hold the MENU key and press the RESET button to restore.<br>**Mute alarming:** Press and hold the MENU key for 4 seconds to turn On/Off the alarm |
| UP | Function set key | Light up the LCD background, set the Master or Slave address cord, the maximum threshold of voltage, current, temperature and humidity from 0 to 9 |
| DOWN | Position selection key | Light up the LCD background, select the address code, threshold of voltage, current, temperature and humidity |
| RESET | Restart button | Restart the device |
| Screen | View the states | Display the power and environment status |
| T/H | Sensor port | Connect the external T/H sensor |

### 3.2 INITIALIZATION

When powering on the EZ-PDU's, the RUN indicator will flash and the PDU works normally after initializing the LED indicator and TFT screen. Below are the LCD displaying content introductions from DC, single phase and three phase power sources. The user can navigate these screens by pressing the MENU button.

| Screen | 1-Phase | 3-Phase | DC |
|---|---|---|---|
| 1 | Current (A), Voltage (V), Power (kW), Energy (kWh) | L1: Current (A), Voltage (V), Power (kW), Energy (kWh) | Current (A), Voltage (V), Power (kW), Energy (kWh) |
| 2 | Temp & Humidity (from External Sensor) | L2: Current (A), Voltage (V), Power (kW), Energy (kWh) | Temp & Humidity (from External Sensor) |
| 3 | Baud Rate | L2: Current (A), Voltage (V), Power (kW), Energy (kWh) | Baud Rate |
| 4 | IP Address | Temp & Humidity (from External Sensor) | IP Address |
| 5 | Voltage and Current Threshold | Baud Rate | Voltage and Current Threshold |
| 6 | Temp & Humid Threshold | IP Address | Temp & Humid Threshold |
| 7 | N/A | L1: Voltage and Current Threshold | N/A |
| 8 | N/A | L2: Voltage and Current Threshold | N/A |
| 9 | N/A | L3: Voltage and Current Threshold | N/A |
| 10 | N/A | Temp & Humid Threshold | N/A |

### 3.3 HARDWARE SETTINGS

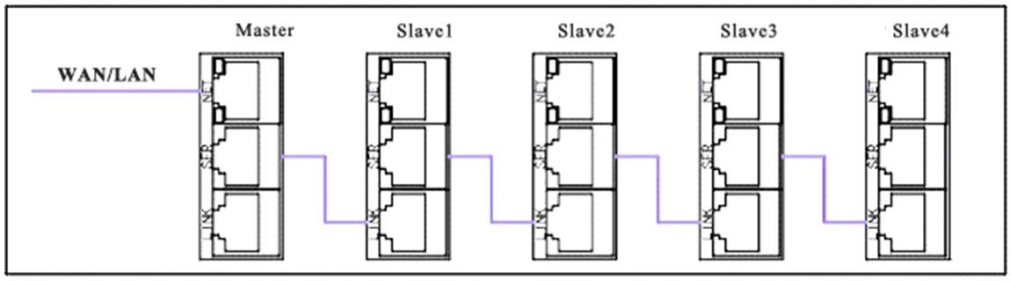
| Setting | Action |
|---|---|
| Address Code | To locate the address code from the LCD screen, press the DOWN key to select the master or slave address code and press UP key to set the value from 0 to 4. |
| Current or Voltage Threshold | To locate the threshold setting page, press the DOWN key to select the item, then press the UP key to set the threshold value, the allowed maximum current is 32A and maximum voltage is 276VAC |
| Restore to Factory Default | Press and hold the MENU key when powering on or Hold the MENU key to press the RESET button. |
| Mute the Alarm | Press and hold the MENU key for 5-6 seconds when there is an alarm to turn on/off. When the alarm is turned on, an ON indicator will be displayed in red on the screen, When the alarm was turned off, an OFF indicator will be displayed in red on the screen |

Note: All above settings must be saved by pressing the MENU key, and the settings will take effective after the beep sound, otherwise, the device will beep but without saving the settings.

## 3.4 DAISY CHAIN SETTINGS

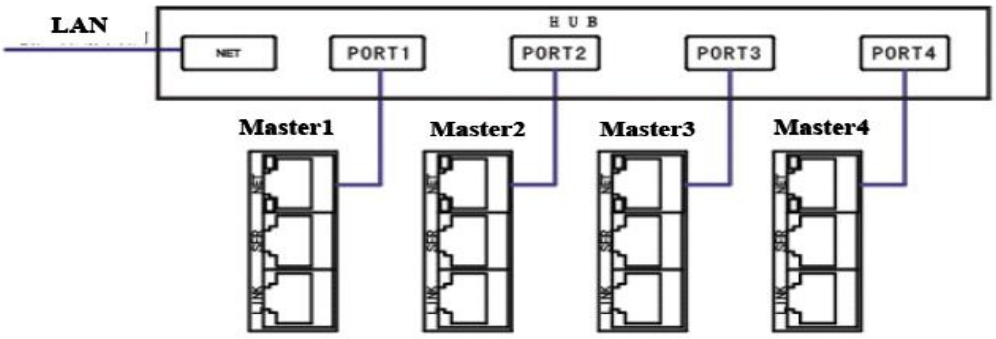
### Serial Daisy-chain mode

Set one EZ-PDU as the master, and the remainder as the slave units. The maximum daisy-chain is 4 PDU's




### Ethernet Daisy-chain mode

Connect the each EZ-PDU to the port from the HUB and connect the Net port from HUB to the internet. There are no PDU quantity limits. Connect the Master net port with the computer net port, then access via IE.

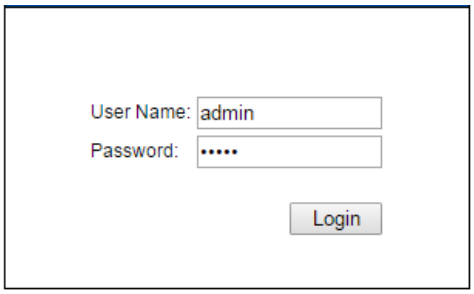



## 3.5 SOFTWARE OVERVIEW

User can access the Network Metered EZ-PDU's through a WEB interface, SNMP (v1) or Telnet command console.

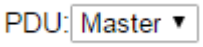
### Web Browser Access

User can access the Network Metered EZ-PDU's via web browser through the IP address. The login window is illustrated below. The factory default username is 'admin', the password is 'admin'.



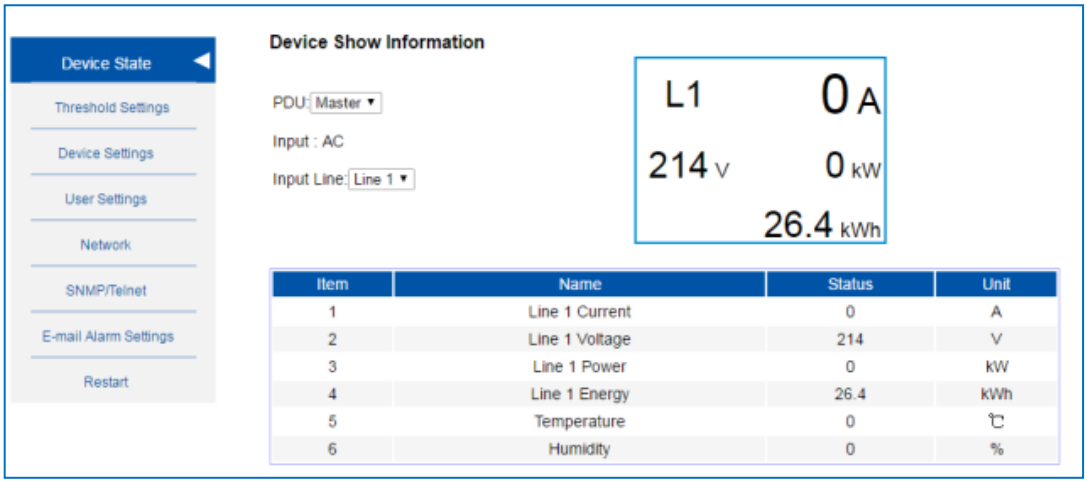
### Device State (Home Page)

Displays the current, voltage, power and energy consumption of the Network Metered EZ-PDU.

- Select drop-down list 

view the power date of the Master unit or Slave units.
- Select drop-down list 

to view the power date of L1, L2 or L3 （Three phase models only）

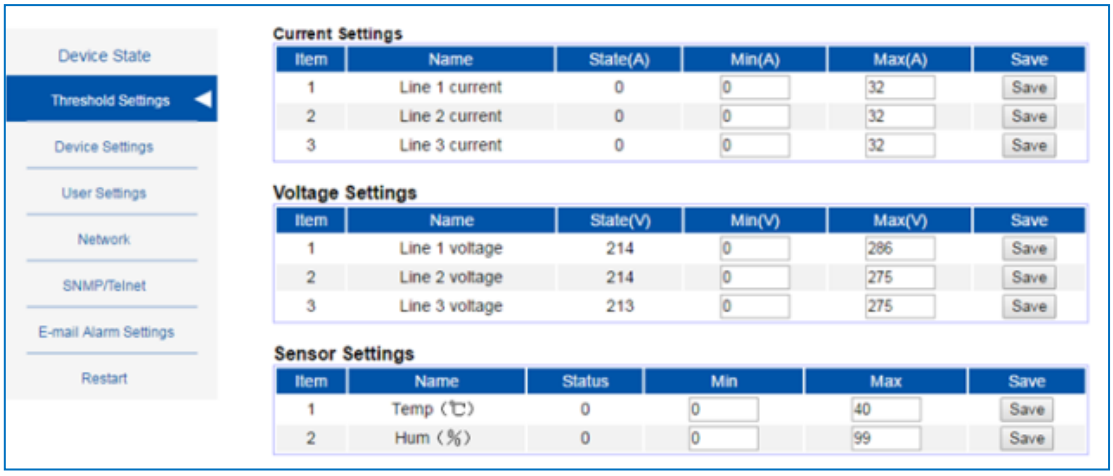



| Item | Name | Status | Unit |
|---|---|---|---|
| 1 | Line 1 Current | 0 | A |
| 2 | Line 1 Voltage | 214 | V |
| 3 | Line 1 Power | 0 | kW |
| 4 | Line 1 Energy | 26.4 | kWh |
| 5 | Temperature | 0 | ℃ |
| 6 | Humidity | 0 | % |

### Threshold Setting

Set the threshold of current, voltage, temperature and humidity.

- Input Current Range:
  - Single Phase: 0-63A
  - Three Phase: 0-32A
- Input Voltage Range: 170-276VAC
- Temperate range: 0-45℃
- Humidity range: 0-99%




| Item | Name | State(A) | Min(A) | Max(A) | Save |
|---|---|---|---|---|---|
| 1 | Line 1 current | 0 | 0 | 32 | Save |
| 2 | Line 2 current | 0 | 0 | 32 | Save |
| 3 | Line 3 current | 0 | 0 | 32 | Save |

| Item | Name | State(V) | Min(V) | Max(V) | Save |
|---|---|---|---|---|---|
| 1 | Line 1 voltage | 214 | 0 | 286 | Save |
| 2 | Line 2 voltage | 214 | 0 | 275 | Save |
| 3 | Line 3 voltage | 213 | 0 | 275 | Save |

| Item | Name | Status | Min | Max | Save |
|---|---|---|---|---|---|
| 1 | Temp (℃) | 0 | 0 | 40 | Save |
| 2 | Hum (%) | 0 | 0 | 99 | Save |

### Device Settings

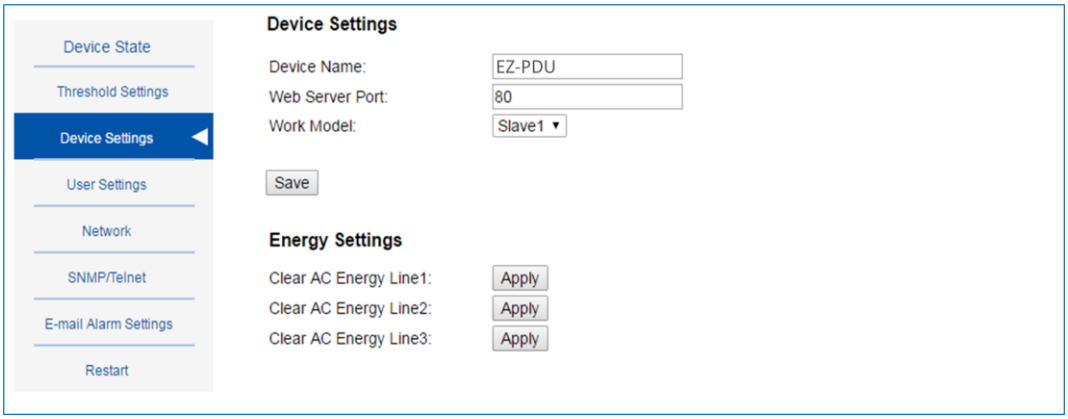
The Device Settings are as follows:

- Device Name: Fill the device name.
- Web server port
- Work model: Revise master and slave mode, to set slave1, 2..... (Virtual Value: 1-4)

### Energy Setting

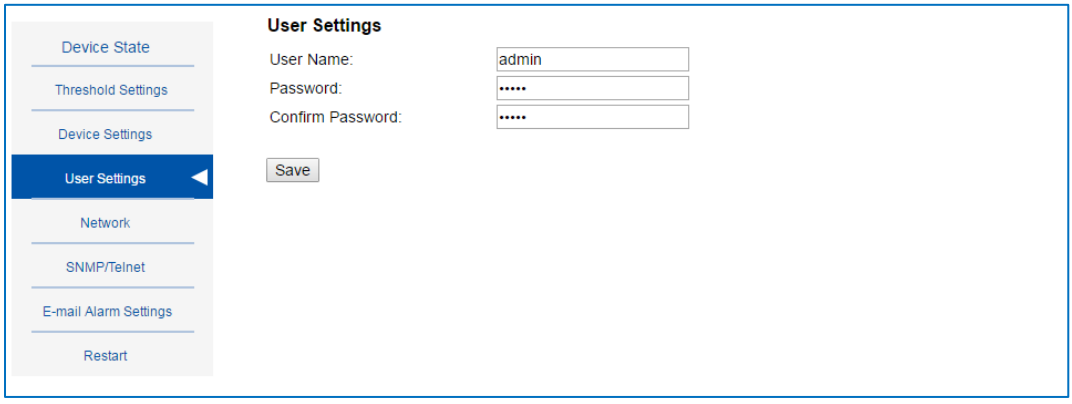
Clear energy line1：Click Apply button.

(The same operation for Line 2 and Line3 for 3phase products.)




### User Settings

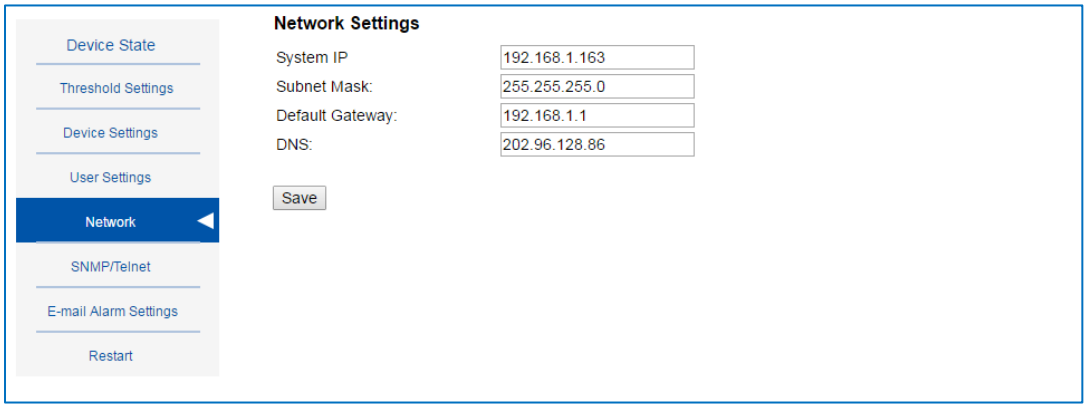
User can change the user name and password (the max. character length for each is 16 digits).



## Network

| | | |
|---|---|---|
| System IP | 92.168.1.163 | (factory default) |
| Subnet Mask | 255.255.255.0 | |
| Default Gateway | 192.168.1.1 | |
| DNS | 202.96.128.86 | (factory default) |

*Note: Restarting software is necessary after a modification of the network settings. Go to "Restart" section for instructions.*




## SNMP/Telnet

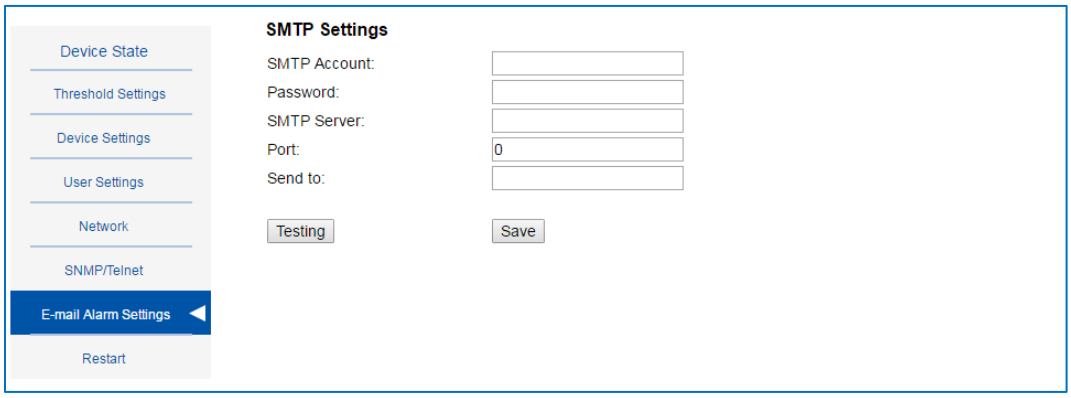
The default Get community and Set community is "public" and "private". User can modify according to the specific application. Fill in the trap address of SNMP management platform and the trap alarm will be sent automatically. There are 2 Trap addresses.

- Telnet settings
- Select from "Enable" or "Disable" to configure the Telnet feature, the default state is enabled.

*Note: Restarting software is necessary after SNMP setting. Go to "SNMP Access (V1)" section for instructions.*

### E-mail Alarm Settings

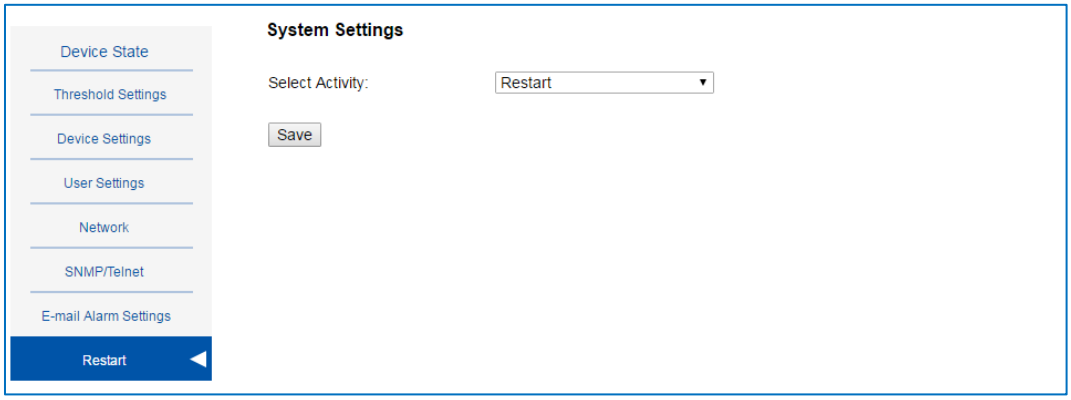
Set the SMTP including SMTP account, password, SMTP server and port, then save. Click Testing and fill in the testing email address. If the test email is received, the setting is effective. See below interface.




### Restart

Select Activity: User can restart the software or restore to factory default settings by clicking "Save". When the Network Module buzzes, the software restart is successful.

*Note: Press and hold the MENU button when powering on to restore to factory settings.*



### 3.6 SNMP V1 ACCESS

| Parameter | OID | Instructions |
|---|---|---|
| deviceName | 1.3.6.1.4.1.534.6.6.8.1.1 | the name of the master unit |
| deviceDescription | 1.3.6.1.4.1.534.6.6.8.1.2 | the information of the master unit |
| deviceVersion | 1.3.6.1.4.1.534.6.6.8.1.3 | the software version of master unit |
| ipAddr | 1.3.6.1.4.1.534.6.6.8.1.4 | the IP address of master unit |
| macAddr | 1.3.6.1.4.1.534.6.6.8.1.5 | the Mac address of master unit |
| s1macAddr | 1.3.6.1.4.1.534.6.6.8.1.6 | the Mac address of slave unit 1 |
| s2macAddr | 1.3.6.1.4.1.534.6.6.8.1.7 | the Mac address of slave unit 2 |
| s3macAddr | 1.3.6.1.4.1.534.6.6.8.1.8 | the Mac address of slave unit 3 |
| s4macAddr | 1.3.6.1.4.1.534.6.6.8.1.9 | the Mac address of slave unit 4 |
| mInputVoltage | 1.3.6.1.4.1.534.6.6.8.2.1 | the average voltage of master unit |
| s1InputVoltage | 1.3.6.1.4.1.534.6.6.8.2.2 | the average voltage of slave unit 1 |
| s2InputVoltage | 1.3.6.1.4.1.534.6.6.8.2.3 | the average voltage of slave unit 2 |
| s3InputVoltage | 1.3.6.1.4.1.534.6.6.8.2.4 | the average voltage of slave unit 3 |
| s4InputVoltage | 1.3.6.1.4.1.534.6.6.8.2.5 | the average voltage of slave unit 4 |
| mVoltageA | 1.3.6.1.4.1.534.6.6.8.2.6 | the voltage of phase 1 from master unit |
| s1VoltageA | 1.3.6.1.4.1.534.6.6.8.2.7 | the voltage of phase 1 from slave unit 1 |
| s2VoltageA | 1.3.6.1.4.1.534.6.6.8.2.8 | the voltage of phase 1 from slave unit 2 |
| s3VoltageA | 1.3.6.1.4.1.534.6.6.8.2.9 | the voltage of phase 1 from slave unit 3 |
| s4VoltageA | 1.3.6.1.4.1.534.6.6.8.2.10 | the voltage of phase 1 from slave unit 4 |
| mVoltageB | 1.3.6.1.4.1.534.6.6.8.2.11 | the voltage of phase 2 from master unit |
| s1VoltageB | 1.3.6.1.4.1.534.6.6.8.2.12 | the voltage of phase 2 from slave unit 1 |
| s2VoltageB | 1.3.6.1.4.1.534.6.6.8.2.13 | the voltage of phase 2 from slave unit 2 |
| s3VoltageB | 1.3.6.1.4.1.534.6.6.8.2.14 | the voltage of phase 2 from slave unit 3 |
| s4VoltageB | 1.3.6.1.4.1.534.6.6.8.2.15 | the voltage of phase 2 from slave unit 4 |
| mVoltageC | 1.3.6.1.4.1.534.6.6.8.2.16 | the voltage of phase 3 from master unit |
| s1VoltageC | 1.3.6.1.4.1.534.6.6.8.2.17 | the voltage of phase 3 from slave unit 1 |
| s2VoltageC | 1.3.6.1.4.1.534.6.6.8.2.18 | the voltage of phase 3 from slave unit 2 |
| s3VoltageC | 1.3.6.1.4.1.534.6.6.8.2.19 | the voltage of phase 3 from slave unit 3 |
| s4VoltageC | 1.3.6.1.4.1.534.6.6.8.2.20 | the voltage of phase 3 from slave unit 4 |
| mCurrentA | 1.3.6.1.4.1.534.6.6.8.3.1 | the current of phase 1 from master unit |
| s1CurrentA | 1.3.6.1.4.1.534.6.6.8.3.2 | the current of phase 1 from slave unit 1 |
| s2CurrentA | 1.3.6.1.4.1.534.6.6.8.3.3 | the current of phase 1 from slave unit 2 |
| s3CurrentA | 1.3.6.1.4.1.534.6.6.8.3.4 | the current of phase 1 from slave unit 3 |
| s4Current A | 1.3.6.1.4.1.534.6.6.8.3.5 | the current of phase 1 from slave unit 4 |
| mCurrentB | 1.3.6.1.4.1.534.6.6.8.3.6 | the current of phase 2 from master unit |
| s1CurrentB | 1.3.6.1.4.1.534.6.6.8.3.7 | the current of phase 2 from slave unit 1 |
| s2CurrentB | 1.3.6.1.4.1.534.6.6.8.3.8 | the current of phase 2 from slave unit 2 |
| s3CurrentB | 1.3.6.1.4.1.534.6.6.8.3.9 | the current of phase 2 from slave unit 3 |
| s4CurrentB | 1.3.6.1.4.1.534.6.6.8.3.10 | the current of phase 2 from slave unit 4 |
| mCurrentC | 1.3.6.1.4.1.534.6.6.8.3.11 | the current of phase 3 from master unit |
| s1Current C | 1.3.6.1.4.1.534.6.6.8.3.12 | the current of phase 3 from slave unit 1 |
| s2CurrentC | 1.3.6.1.4.1.534.6.6.8.3.13 | the current of phase 3 from slave unit 2 |
| s3CurrentC | 1.3.6.1.4.1.534.6.6.8.3.14 | the current of phase 3 from slave unit 3 |

| | | |
|---|---|---|
| s4Current C | 1.3.6.1.4.1.534.6.6.8.3.15 | the current of phase 3 from slave unit 4 |
| mActPowerA | 1.3.6.1.4.1.534.6.6.8.4.1 | the active power of phase 1 from master unit |
| s1ActPowerA | 1.3.6.1.4.1.534.6.6.8.4.2 | the active power of phase 1 from slave unit 1 |
| s2ActPowerA | 1.3.6.1.4.1.534.6.6.8.4.3 | the active power of phase 1 from slave unit 2 |
| s3ActPowerA | 1.3.6.1.4.1.534.6.6.8.4.4 | the active power of phase 1 from slave unit 3 |
| s4ActPowerA | 1.3.6.1.4.1.534.6.6.8.4.5 | the active power of phase 1 from slave unit 4 |
| mActPowerB | 1.3.6.1.4.1.534.6.6.8.4.6 | the active power of phase 2 from master unit |
| s1ActPowerB | 1.3.6.1.4.1.534.6.6.8.4.7 | the active power of phase 2 from slave unit 1 |
| s2ActPowerB | 1.3.6.1.4.1.534.6.6.8.4.8 | the active power of phase 2 from slave unit 2 |
| s3ActPowerB | 1.3.6.1.4.1.534.6.6.8.4.9 | the active power of phase 2 from slave unit 3 |
| s4ActPowerB | 1.3.6.1.4.1.534.6.6.8.4.10 | the active power of phase 2 from slave unit 4 |
| mActPowerC | 1.3.6.1.4.1.534.6.6.8.4.11 | the active power of phase 3 from master unit |
| s1ActPowerC | 1.3.6.1.4.1.534.6.6.8.4.12 | the active power of phase 3 from slave unit 1 |
| s2ActPowerC | 1.3.6.1.4.1.534.6.6.8.4.13 | the active power of phase 3 from slave unit 2 |
| s3ActPowerC | 1.3.6.1.4.1.534.6.6.8.4.14 | the active power of phase 3 from slave unit 3 |
| s4ActPowerC | 1.3.6.1.4.1.534.6.6.8.4.15 | the active power of phase 3 from slave unit 4 |
| mAppPowerA | 1.3.6.1.4.1.534.6.6.8.5.1 | the apparent power of phase 1 from master unit |
| s1AppPowerA | 1.3.6.1.4.1.534.6.6.8.5.2 | the apparent power of phase 1 from slave unit 1 |
| s2AppPowerA | 1.3.6.1.4.1.534.6.6.8.5.3 | the apparent power of phase 1 from slave unit 2 |
| s3AppPowerA | 1.3.6.1.4.1.534.6.6.8.5.4 | the apparent power of phase 1 from slave unit 3 |
| s4AppPowerA | 1.3.6.1.4.1.534.6.6.8.5.5 | the apparent power of phase 1 from slave unit 4 |
| mAppPowerB | 1.3.6.1.4.1.534.6.6.8.5.6 | the apparent power of phase 2 from master unit |
| s1AppPowerB | 1.3.6.1.4.1.534.6.6.8.5.7 | the apparent power of phase 2 from slave unit 1 |
| s2AppPowerB | 1.3.6.1.4.1.534.6.6.8.5.8 | the apparent power of phase 2 from slave unit 2 |
| s3AppPowerB | 1.3.6.1.4.1.534.6.6.8.5.9 | the apparent power of phase 2 from slave unit 3 |
| s4AppPowerB | 1.3.6.1.4.1.534.6.6.8.5.10 | the apparent power of phase 2 from slave unit 4 |
| mAppPowerC | 1.3.6.1.4.1.534.6.6.8.5.11 | the apparent power of phase 3 from master unit |
| s1AppPowerC | 1.3.6.1.4.1.534.6.6.8.5.12 | the apparent power of phase 3 from slave unit 1 |
| s2AppPowerC | 1.3.6.1.4.1.534.6.6.8.5.13 | the apparent power of phase 3 from slave unit 2 |
| s3AppPowerC | 1.3.6.1.4.1.534.6.6.8.5.14 | the apparent power of phase3 from slave unit 3 |
| s4AppPowerC | 1.3.6.1.4.1.534.6.6.8.5.15 | the apparent power of phase 3 from slave unit 4 |
| mEnergyA | 1.3.6.1.4.1.534.6.6.8.6.1 | the power consumption of phase 1 from master unit |
| s1EnergyA | 1.3.6.1.4.1.534.6.6.8.6.2 | the power consumption of phase 1 from slave unit 1 |
| s2EnergyA | 1.3.6.1.4.1.534.6.6.8.6.3 | the power consumption of phase 1 from slave unit 2 |
| s3EnergyA | 1.3.6.1.4.1.534.6.6.8.6.4 | the power consumption of phase 1 from slave unit 3 |
| s4EnergyA | 1.3.6.1.4.1.534.6.6.8.6.5 | the power consumption of phase 1 from slave unit 4 |
| mEnergyB | 1.3.6.1.4.1.534.6.6.8.6.6 | the power consumption of phase 2 from master unit |
| s1EnergyB | 1.3.6.1.4.1.534.6.6.8.6.7 | the power consumption of phase 2 from slave unit 1 |
| s2EnergyB | 1.3.6.1.4.1.534.6.6.8.6.8 | the power consumption of phase 2 from slave unit 2 |
| s3EnergyB | 1.3.6.1.4.1.534.6.6.8.6.9 | the power consumption of phase 2 from slave unit 3 |
| s4EnergyB | 1.3.6.1.4.1.534.6.6.8.6.10 | the power consumption of phase 2 from slave unit 4 |
| mEnergyC | 1.3.6.1.4.1.534.6.6.8.6.11 | the power consumption of phase 3 from master unit |
| s1EnergyC | 1.3.6.1.4.1.534.6.6.8.6.12 | the power consumption of phase 3 from slave unit 1 |
| s2EnergyC | 1.3.6.1.4.1.534.6.6.8.6.13 | the power consumption of phase 3 from slave unit 2 |
| s3EnergyC | 1.3.6.1.4.1.534.6.6.8.6.14 | the power consumption of phase 3 from slave unit 3 |
| s4EnergyC | 1.3.6.1.4.1.534.6.6.8.6.15 | the power consumption of phase 3 from slave unit 4 |

| | | |
|---|---|---|
| mSensorStatus | 1.3.6.1.4.1.534.6.6.8.7.1 | the sensor connection status from master unit<br>(0: No sensor connected 1: Sensor connected) |
| s1SensorStatus | 1.3.6.1.4.1.534.6.6.8.7.2 | the sensor connection status from slave unit 1<br>(0: No sensor connected 1: Sensor connected) |
| s2SensorStatus | 1.3.6.1.4.1.534.6.6.8.7.3 | the sensor connection status from slave unit 2<br>(0: No sensor connected 1: Sensor connected) |
| s3SensorStatus | 1.3.6.1.4.1.534.6.6.8.7.4 | the sensor connection status from slave unit 3<br>(0: No sensor connected 1: Sensor connected) |
| s4SensorStatus | 1.3.6.1.4.1.534.6.6.8.7.5 | the sensor connection status from slave unit 4<br>(0: No sensor connected 1: Sensor connected) |
| mTemperature | 1.3.6.1.4.1.534.6.6.8.7.6 | the temperature of master unit |
| s1Temperature | 1.3.6.1.4.1.534.6.6.8.7.7 | the temperature of slave unit 1 |
| s2Temperature | 1.3.6.1.4.1.534.6.6.8.7.8 | the temperature of slave unit 2 |
| s3Temperature | 1.3.6.1.4.1.534.6.6.8.7.9 | the temperature of slave unit 3 |
| s4Temperature | 1.3.6.1.4.1.534.6.6.8.7.10 | the temperature of slave unit 4 |
| mHumidity | 1.3.6.1.4.1.534.6.6.8.7.11 | the humidity of master unit |
| s1Humidity | 1.3.6.1.4.1.534.6.6.8.7.12 | the humidity of slave unit 1 |
| s2Humidity | 1.3.6.1.4.1.534.6.6.8.7.13 | the humidity of slave unit 2 |
| s3Humidity | 1.3.6.1.4.1.534.6.6.8.7.14 | the humidity of slave unit 3 |
| s4Humidity | 1.3.6.1.4.1.534.6.6.8.7.15 | the humidity of slave unit 4 |
| mVolAlarmA | 1.3.6.1.4.1.534.6.6.8.8.1 | the voltage alarm of phase 1 from master unit<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s1VolAlarmA | 1.3.6.1.4.1.534.6.6.8.8.2 | the voltage alarm of phase 1 from slave unit 1<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s2VolAlarmA | 1.3.6.1.4.1.534.6.6.8.8.3 | the voltage alarm of phase 1 from slave unit 2<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s3VolAlarmA | 1.3.6.1.4.1.534.6.6.8.8.4 | the voltage alarm of phase 1 from slave unit 3<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s4VolAlarmA | 1.3.6.1.4.1.534.6.6.8.8.5 | the voltage alarm of phase 1 from slave unit 4<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| mVolAlarmB | 1.3.6.1.4.1.534.6.6.8.8.6 | the voltage alarm of phase 2 from master unit<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s1VolAlarmB | 1.3.6.1.4.1.534.6.6.8.8.7 | the voltage alarm of phase 2 from slave unit 1<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s2VolAlarmB | 1.3.6.1.4.1.534.6.6.8.8.8 | the voltage alarm of phase 2 from slave unit 2<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s3VolAlarmB | 1.3.6.1.4.1.534.6.6.8.8.9 | the voltage alarm of phase 2 from slave unit 3<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s4VolAlarmB | 1.3.6.1.4.1.534.6.6.8.8.10 | the voltage alarm of phase 2 from slave unit 4<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| mVolAlarmC | 1.3.6.1.4.1.534.6.6.8.8.11 | the voltage alarm of phase 3 from master unit<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s1VolAlarmC | 1.3.6.1.4.1.534.6.6.8.8.12 | the voltage alarm of phase 3 from slave unit 1<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s2VolAlarmC | 1.3.6.1.4.1.534.6.6.8.8.13 | the voltage alarm of phase 3 from slave unit 2<br>1: Normal 2 : Low-voltage 3: Over-voltage |

| | | |
|---|---|---|
| s3VolAlarmC | 1.3.6.1.4.1.534.6.6.8.8.14 | the voltage alarm of phase 3 from slave unit 3<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| s4VolAlarmC | 1.3.6.1.4.1.534.6.6.8.8.15 | the voltage alarm of phase 3 from slave unit 4<br>1: Normal 2 : Low-voltage 3: Over-voltage |
| mCurAlarmA | 1.3.6.1.4.1.534.6.6.8.9.1 | the current alarm of phase 1 from master unit<br>1: Normal 2: Low-current 3: Over-load |
| s1CurAlarmA | 1.3.6.1.4.1.534.6.6.8.9.2 | the current alarm of phase 1 from slave unit 1<br>1: Normal 2: Low-current 3: Over-load |
| s2CurAlarmA | 1.3.6.1.4.1.534.6.6.8.9.3 | the current alarm of phase 1 from slave unit 2<br>1: Normal 2: Low-current 3: Over-load |
| s3CurAlarmA | 1.3.6.1.4.1.534.6.6.8.9.4 | the current alarm of phase 1 from slave unit 3<br>1: Normal 2: Low-current 3: Over-load |
| s4CurAlarmA | 1.3.6.1.4.1.534.6.6.8.9.5 | the current alarm of phase 1 from slave unit 4<br>1: Normal 2: Low-current 3: Over-load |
| mCurAlarmB | 1.3.6.1.4.1.534.6.6.8.9.6 | the current alarm of phase 2 from master unit<br>1: Normal 2: Low-current 3: Over-load |
| s1CurAlarmB | 1.3.6.1.4.1.534.6.6.8.9.7 | the current alarm of phase 2 from slave unit 1<br>1: Normal 2: Low-current 3: Over-load |
| s2CurAlarmB | 1.3.6.1.4.1.534.6.6.8.9.8 | the current alarm of phase 2 from slave unit 2<br>1: Normal 2: Low-current 3: Over-load |
| s3CurAlarmB | 1.3.6.1.4.1.534.6.6.8.9.9 | the current alarm of phase 2 from slave unit 3<br>1: Normal 2: Low-current 3: Over-load |
| s4CurAlarmB | 1.3.6.1.4.1.534.6.6.8.9.10 | the current alarm of phase 2 from slave unit 4<br>1: Normal 2: Low-current 3: Over-load |
| mCurAlarmC | 1.3.6.1.4.1.534.6.6.8.9.11 | the current alarm of phase 3 from master unit<br>1: Normal 2: Low-current 3: Over-load |
| s1CurAlarmC | 1.3.6.1.4.1.534.6.6.8.9.12 | the current alarm of phase 3 from slave unit 1<br>1: Normal 2: Low-current 3: Over-load |
| s2CurAlarmC | 1.3.6.1.4.1.534.6.6.8.9.13 | the current alarm of phase 3 from slave unit 2<br>1: Normal 2: Low-current 3: Over-load |
| s3CurAlarmC | 1.3.6.1.4.1.534.6.6.8.9.14 | the current alarm of phase 3 from slave unit 3<br>1: Normal 2: Low-current 3: Over-load |
| s4CurAlarmC | 1.3.6.1.4.1.534.6.6.8.9.15 | the current alarm of phase 3 from slave unit 4<br>1: Normal 2: Low-current 3: Over-load |
| mTemAlarm | 1.3.6.1.4.1.534.6.6.8.10.1 | the temperature alarm of master unit<br>1: Normal 2: Low-temperature 3:Over-temperature |
| s1TemAlarm | 1.3.6.1.4.1.534.6.6.8.10.2 | the temperature alarm of slave unit 1<br>1: Normal 2: Low-temperature 3:Over-temperature |
| s2TemAlarm | 1.3.6.1.4.1.534.6.6.8.10.3 | the temperature alarm of slave unit 2<br>1: Normal 2: Low-temperature 3:Over-temperature |
| s3TemAlarm | 1.3.6.1.4.1.534.6.6.8.10.4 | the temperature alarm of slave unit 3<br>1: Normal 2: Low-temperature 3:Over-temperature |
| s4TemAlarm | 1.3.6.1.4.1.534.6.6.8.10.5 | the temperature alarm of slave unit 4<br>1: Normal 2: Low-temperature 3: Over-temperature |
| mHumAlarm | 1.3.6.1.4.1.534.6.6.8.10.6 | the Humidity alarm of master unit<br>1: Normal 2: Low-Min humidity 3:Over-Max humidity |

| | | |
|---|---|---|
| s1HumAlarm | 1.3.6.1.4.1.534.6.6.8.10.7 | the temperature alarm of slave unit 1<br>1: Normal 2: Low-Min humidity 3:Over-Max humidity |
| s2HumAlarm | 1.3.6.1.4.1.534.6.6.8.10.8 | the Humidity alarm of slave unit 2<br>1: Normal 2: Low-Min humidity 3:Over-Max humidity |
| s3HumAlarm | 1.3.6.1.4.1.534.6.6.8.10.9 | the Humidity alarm of slave unit 3<br>1: Normal 2: Low-Min humidity 3:Over-Max humidity |
| s4HumAlarm | 1.3.6.1.4.1.534.6.6.8.10.10 | the Humidity alarm of slave unit 4<br>1: Normal 2: Low-Min humidity 3:Over-Max humidity |

### 3.7 TELNET ACCESS

The application of Telnet enables the user to remotely manage the EZ-PDU. The user can monitor and manage the device by entry the command line from the Telnet program. Telnet requires the the customer terminal from a PC. The main command lines are as following: STATUS、REBOOT、RESET、HELP

#### Status

The "STATUS" command line can be used to view the device states such as amps/volts/kWh or temp/humid.

Command form： STATUS【INDEX】

【INDEX】: 0 is master, 1-4 is slave

*Example:* status 0：To view the amps/volts/kWh and temp/humid of the Master unit

*Note: the actual value should be 10x of the displayed value*

#### Reboot

Enter the REBOOT command line to restart the device.

#### Reset

Enter the RESET command line to restore to factory settings.



# 4. SPECIFICATIONS

| Item | | | Parameters |
|---|---|---|---|
| Input | Single phase | Rating voltage | 110/220V 50/60HZ |
| | | Max current | 16A, 32A, 63A |
| | Three phase | Rating voltage | 380V 50/60HZ |
| | | Max current | 3×16A, 3×32A |
| | Direct current | Rating voltage | 240V /336V |
| | | Max current | 40A / 60A |
| | Cable Spec | | 16A：3×1.5mm²×3M 32A：3×6.0mm²×3M |
| | Input terminal | | 16A input：3×1.5mm²×2M IEC60320 C20 input<br>32A input：3×6.0mm²×2M IEC60309 2P+E plug |
| | Overload protection | | Circuit breaker（optional） |
| Output | Single Phase | Rating voltage | 110/220V |
| | | Max current | 16A, 32A, 63A |
| | Three Phase | Rating voltage | 220V |
| | | Max current | 3×16A, 3×32A |
| | Direct Current | Rating voltage | 240V /336V |
| | | Max current | 40A / 60A |
| | Outlet standard | | Optional |
| | Outlet quantity | | Optional |
| Display | Display method | | 2 groups of 3 way LCD display |
| | Display contents | | Amps / volts / kWh / kW, IP address, address code, Temp/humid |
| | Accuracy | Voltage | Accuracy：±1% +3 byte<br>Resolution：1V Respond time：400ms<br>Display method：LCD; Display direction: Vertical |
| | | Current | Accuracy：±1% +2 byte<br>Resolution：100mA Respond time：400ms<br>Display method：LCD; Display direction: Vertical |
| | | kWh | Accuracy：±1%<br>Resolution：0.1kWh Respond time：400ms<br>Display method：LCD; Display direction: Vertical |
| Physical Spec | Material | | ABS + PC |
| | Color | | Black |
| | Hot-Swap EZ-PDU module | | 180mm |
| Installation | Horizontal, Vertical | | |
| Monitor | Total load current, Input voltage, Total energy consumption (kWh), Total Power (kW), Temp/Humid | | |
| Setting | Threshold of Amps / Volts / Temperature and humidity | | |
| | Email alarm address, HTTP, SNMP (V1), Network (IP, Gateway, Subnet Mask, DNS) | | |
| Environment | Temperature | | -5°C ~ 45°C |
| | Relative humidity | | 30%~90% |
| | Storage | | -20℃ ~70℃ |
| Alarm | System Default | | When threshold of current is exceeded |
| | | | When threshold of voltage is exceed |
| | User defined alarm | | When threshold of current is exceeded |
| | | | When threshold of voltage is exceed |
| | | | When threshold of temperature/humidity is exceeded |
| | Alarm | | Buzzer sounds |
| | | | Send E-mail to administrator automatically |
| | | | SNMP sends trap alerts |
| Access | Web based, access via common web browsers | | |
| | SNMP v1 support | | |
| | Modbus (optional, request for this feature before production) | | |
| User Management | User name and password configurable | | |

## 6. WARRANTY

**2-Year Limited Warranty.** Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship for a period of 2 years from the date of initial purchase. If the product should prove defective in material or workmanship within that period, Seller will repair or replace the product, at its sole discretion.

THIS WARRANTY DOES NOT APPLY TO NORMAL WEAR OR TO DAMAGE RESULTING FROM ACCIDENT, MISUSE, ABUSE OR NEGLECT OR OPERATION OUTSIDE THE ALLOWED ENVIRONMENT. SELLER MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY EXPRESSLY SET FORTH HEREIN.

WARNING: The individual user should take care to determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, the manufacturer makes no representation or warranty as to the suitability or fitness of these devices for any specific application.

If you have questions about this product or need technical support, please contact us or visit our website.

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Latest Revision: November, 2021