# Table of Contents

**Chapter I: Safety Precautions** ................................................................. 01  
 1.1 Safety Instructions ............................................................................. 01  
 1.2 Schematic Symbols .......................................................................... 01  

**Chapter II: Product Introduction** .......................................................... 02  
 2.1 Product Introduction ......................................................................... 02  
 2.2 Appearance Description .................................................................... 02  
 2.3 Description of LED Indicators ............................................................ 05  

**Chapter III: Equipment Installation** ....................................................... 07  
 3.1 Packaging Information ....................................................................... 07  
 3.2 Equipment Installation ....................................................................... 08  

**Chapter IV: Electrical Connection** ......................................................... 10  
 4.1 Port Description ................................................................................ 10  
 4.2 Connection to the Inverter ................................................................. 11  
 4.3 Connection to the Environmental Monitor and Meter ....................... 13  
 4.4 Connection to the Computer ............................................................... 14  
 4.5 Connection to the Ripple Control Receiver ........................................ 14  
 4.6 Connection to DRED ......................................................................... 16  

**Chapter V: LAN EzLogger Pro Data Upload and Function Configuration** ............................................. 17  
 5.1 How to Use LAN EzLogger Pro ............................................................ 17  
 5.2 EzLogger Pro Configuration ................................................................. 18  
 5.3 Program Upgrade ............................................................................. 27  

**Chapter VI: Data Upload and Function Configuration For Wi-Fi EzLogger Pro** ............................................. 28  
 6.1 How to use Wi-Fi EzLogger Pro ............................................................ 28  
 6.2 Using ProMate to configure Wi-Fi EzLogger Pro ............................. 29
Chapter VII : Website Monitoring .............................................................. 30
  7.1 Register A New User and Add A Power Station............................ 30
  7.2 View Power Station Information ......................................................... 33

Chapter VIII : Technical Specifications ...................................................... 36

Chapter IX : Certification and Warranty ..................................................... 37
  9.1 Certification Mark ............................................................................. 37
  9.2 Warranty Period ............................................................................... 37
  9.3 Warranty Certificate ......................................................................... 37
  9.4 Warranty Conditions ........................................................................ 37
  9.5 Disclaimer ....................................................................................... 37
Chapter I: Safety Precautions

1.1 Safety Instructions

EzLogger Pro produced by Jiangsu GoodWe Power Supply Technology Co., Ltd. (hereinafter “GoodWe”) is designed and tested in strict accordance with the relevant safety regulations, however, as an electrical and electronic device, the following safety instructions shall be followed at the time of installation and maintenance, improper operation will cause personal injury and property damage to the operator and third party.

1. Prevent children from approaching EzLogger Pro.
2. Do not open the upper cover, unauthorized touching or replacement of components may cause personal injury and damage to EzLogger Pro, in this case, GoodWe will not be liable for such injury or damage or quality warranty.
3. Static electricity may damage electronic components, so appropriate measures shall be taken to prevent static electricity.

1.2 Schematic Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>🚨</td>
<td>Minor or moderate injury may be caused</td>
</tr>
<tr>
<td>🚧</td>
<td>It shall not be disposed of as ordinary waste, a special route is required for recycling</td>
</tr>
<tr>
<td>🚬</td>
<td>Keep upright, and do not tilt or put upside down</td>
</tr>
<tr>
<td>🔄</td>
<td>Recyclable</td>
</tr>
<tr>
<td>🍾</td>
<td>Fragile! Handle with care</td>
</tr>
<tr>
<td>🌧</td>
<td>Keep away from moisture</td>
</tr>
<tr>
<td>🇪🇺</td>
<td>CE mark</td>
</tr>
<tr>
<td>⚠️</td>
<td>Points of attention</td>
</tr>
<tr>
<td>📖</td>
<td>Explanation</td>
</tr>
</tbody>
</table>
Chapter II: Product Introduction

2.1 Product Introduction

EzLogger Pro is a dedicated device for the photovoltaic power generation system monitoring and management platform, which achieves interface aggregation, data acquisition, data storage, centralized monitoring, centralized maintenance and other functions for the inverters, environmental monitor, watt-hour meter and other devices in the photovoltaic power generation system.

2.2 Appearance Description

Figure 2.2-1 External View of EzLogger Pro

![External View of EzLogger Pro](image-url)

<table>
<thead>
<tr>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>L = 190 mm</td>
</tr>
<tr>
<td>W = 118 mm</td>
</tr>
<tr>
<td>H = 37 mm</td>
</tr>
</tbody>
</table>
2.2 Appearance Description

Front of the box

Figure 2.2-2 Front View of EzLogger Pro Box

Side of the box

Figure 2.2-3 Side View of EzLogger Pro Box

<table>
<thead>
<tr>
<th>No.</th>
<th>Port</th>
<th>Port Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ANT</td>
<td>Wi-Fi or GPRS antenna connector</td>
</tr>
<tr>
<td>2</td>
<td>Sound alarm</td>
<td>Buzzer sound hole</td>
</tr>
<tr>
<td>3</td>
<td>Micro SD</td>
<td>SD memory card slot</td>
</tr>
<tr>
<td>4</td>
<td>USB</td>
<td>USB slot</td>
</tr>
<tr>
<td>5</td>
<td>Reload</td>
<td>Factory reset button</td>
</tr>
</tbody>
</table>

⚠️ ANT port only can use in Ezlogger Pro with Wi-Fi and Ezlogger Pro with GPRS.
2.2 Appearance Description

Back of the box

Figure 2.2-4 Back View of EzLogger Pro Box

1. Wall mounting hole  2. Rail clip  3. Cooling vents

Top surface of the box

Figure 2.2-5 Top View of EzLogger Pro Box

1. SIM card slot

⚠️ SIM card slot only can use in the EzLogger Pro with GPRS.
2.3 Description of LED Indicators

Introduce the meaning of the LED indicators.

The LED indicators are as follows:

![Diagram of LED Indicators]

**Figure 2.3-1 Explanatory Drawing of LED Indicators**
### 2.3 Description of LED Indicators

Description of the LED indicators is as follows:

<table>
<thead>
<tr>
<th>Port</th>
<th>Status</th>
<th>Status Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER</strong></td>
<td>Blue light On</td>
<td>Power supply is normal</td>
</tr>
<tr>
<td></td>
<td>Blue light Off</td>
<td>No power supply</td>
</tr>
<tr>
<td><strong>RUN</strong></td>
<td>Blue light flashes (1s On/Off alternately)</td>
<td>EzLogger Pro is running properly</td>
</tr>
<tr>
<td></td>
<td>Blue light continue On or Off</td>
<td>EzLogger Pro is not running properly</td>
</tr>
<tr>
<td><strong>SERVER</strong></td>
<td>Blue light continue On</td>
<td>EzLogger Pro is properly connected to the external network server</td>
</tr>
<tr>
<td></td>
<td>Blue light flashes (1s On/Off alternately)</td>
<td>EzLogger Pro is properly connected to the router, but not connected to the external network server</td>
</tr>
<tr>
<td></td>
<td>Blue light Off</td>
<td>EzLogger Pro network is not connected</td>
</tr>
<tr>
<td><strong>PC</strong></td>
<td>Blue light On</td>
<td>EzLogger Pro is connected to the computer software ProMate</td>
</tr>
<tr>
<td></td>
<td>Blue light Off</td>
<td>EzLogger Pro is not connected to the computer software ProMate</td>
</tr>
<tr>
<td><strong>COM1</strong></td>
<td>Blue light On</td>
<td>Number of inverters actually acquired by EzLogger Pro is equal to the parameter setting</td>
</tr>
<tr>
<td></td>
<td>Blue light flashes (1s On/Off alternately)</td>
<td>Number of inverters actually acquired by EzLogger Pro is less than the parameter setting</td>
</tr>
<tr>
<td></td>
<td>Blue light flashes (1s On and 3s Off alternately)</td>
<td>Number of inverters to be acquired according to EzLogger Pro parameter setting is not set</td>
</tr>
<tr>
<td></td>
<td>Blue light Off</td>
<td>No inverter data acquired by EzLogger Pro</td>
</tr>
<tr>
<td><strong>COM2</strong></td>
<td>Blue light On</td>
<td>Number of inverters actually acquired by EzLogger Pro is equal to the parameter setting</td>
</tr>
<tr>
<td></td>
<td>Blue light flashes (1s On/Off alternately)</td>
<td>Number of inverters actually acquired by EzLogger Pro is less than the parameter setting</td>
</tr>
<tr>
<td></td>
<td>Blue light flashes (1s On and 3s Off alternately)</td>
<td>Number of inverters to be acquired according to EzLogger Pro parameter setting is not set</td>
</tr>
<tr>
<td></td>
<td>Blue light Off</td>
<td>No inverter data acquired by EzLogger Pro</td>
</tr>
<tr>
<td><strong>COM3</strong></td>
<td>Blue light On</td>
<td>Number of inverters actually acquired by EzLogger Pro is equal to that to the parameter setting</td>
</tr>
<tr>
<td></td>
<td>Blue light flashes (1s On/Off alternately)</td>
<td>Number of inverters actually acquired by EzLogger Pro is less than the parameter setting</td>
</tr>
<tr>
<td></td>
<td>Blue light flashes (1s On and 3s Off alternately)</td>
<td>Number of inverters to be acquired according to EzLogger Pro parameter setting is not set</td>
</tr>
<tr>
<td></td>
<td>Blue light Off</td>
<td>No inverter data acquired by EzLogger Pro</td>
</tr>
<tr>
<td><strong>COM4</strong></td>
<td>Blue light On</td>
<td>Communication of external environmental monitor and other devices is normal</td>
</tr>
<tr>
<td></td>
<td>Blue light Off</td>
<td>No external environmental monitor and other devices</td>
</tr>
</tbody>
</table>
# Chapter III: Equipment Installation

## 3.1 Packaging Information

Introduce the packaging information and installation process of EzLogger Pro.

After opening the EzLogger Pro package, please check whether the accessories are complete and there is any apparent damage. If there is any damage or certain items are missing, please contact your dealer.

Delivery diagram of accessories:

<table>
<thead>
<tr>
<th>EzLogger Pro x1</th>
<th>Power adapter x1</th>
<th>Guide rail x1</th>
<th>Antenna x 1 (Wi-Fi/GPRS model only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expansion screw x2</td>
<td>User manual x1</td>
<td>Wiring terminal x4</td>
<td>Wi-Fi Configuration x 1 (Wi-Fi model only)</td>
</tr>
</tbody>
</table>

Figure 3.1-1 Delivery Diagram of EzLogger Pro Packaged Accessories

⚠️ Power adapter models will be determined according to the safety regulations of export destination countries.
3.2 Equipment Installation

3.2.1 Choose the installation location
The following points shall be considered when you select the installation location:
1. The ingress protection rating of EzLogger Pro is IP20, so it has no waterproof performance and is for indoor use only.
2. The installation method and location shall be suitable for the weight and size of EzLogger Pro.
3. The installation location shall be well-ventilated away from direct sunlight, and ensure the ambient temperature is within the range of -20℃ ~ 60℃.

3.2.2 Install EzLogger Pro
Install the antenna to EzLogger Pro (Wi-Fi/GPRS model only).

There are three installation methods for EzLogger Pro, namely, table surface mounting, wall mounting and rail mounting.

Installation method 1: Table surface mounting

Please select the table surface mounting method for EzLogger Pro so as not avoid damage to EzLogger Pro due to falling. Do not put EzLogger Pro in a location where it touches cables easily so as to avoid signal interruption due to cable touching.

Installation method 2: Wall mounting
Steps:
1. Drill two circular holes in the wall. The distance between the two circular holes is 70mm, the hole diameter is 8mm, and the screw head protrudes 4mm.
2. Hang the wall mounting holes on the back of EzLogger Pro onto the screws.
3.2 Equipment Installation

Installation method 3: Rail mounting

Steps:
1. Drill two circular holes in the wall, the distance between the two circular holes is 100mm, the hole diameter is 8mm, and the hole depth is 40mm.

2. Install the guide rail on the wall.
3. Install EzLogger Pro on the guide rail.
Chapter IV: Electrical Connection

4.1 Port Description

Introduce how EzLogger Pro is electrically connected to the inverter, computer, environmental monitor, meter and other devices.

Introduce the ports of EzLogger Pro for connection with the inverters and their functions.

The schematic diagram of the ports on the bottom surface of EzLogger Pro is as follows:

![Figure 4.1-1 Schematic Diagram of Ports on the Bottom Surface of Ezlogger Pro](image)

The ports on the bottom surface of EzLogger Pro are described as follows:

<table>
<thead>
<tr>
<th>No.</th>
<th>Port</th>
<th>Port Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>POWER</td>
<td>Adapter 12VDC input</td>
</tr>
<tr>
<td>2</td>
<td>NET</td>
<td>Ethernet port</td>
</tr>
<tr>
<td>3</td>
<td>DI</td>
<td>DRED or RCR function port</td>
</tr>
<tr>
<td>4</td>
<td>NC</td>
<td>Function reserved</td>
</tr>
<tr>
<td>5</td>
<td>COM1</td>
<td>RS485 communication port 1 for inverter</td>
</tr>
<tr>
<td>6</td>
<td>COM2</td>
<td>RS485 communication port 2 for inverter</td>
</tr>
<tr>
<td>7</td>
<td>COM3</td>
<td>RS485 communication port 3 for inverter</td>
</tr>
<tr>
<td>8</td>
<td>COM4</td>
<td>RS485 communication port 4 for environmental monitor and other devices</td>
</tr>
</tbody>
</table>
4.2 Connection to the Inverter

1. Below is the diagram of EzLogger Pro DI ports, where REF1 and REF2 occupy two ports respectively.

![DI Ports Diagram](image1)

EzLogger Pro DI ports are compatible with RCR and DRED functions, and the ports for different functions are defined as follows:

<table>
<thead>
<tr>
<th></th>
<th>REF1</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>REF2</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCR</td>
<td>+5V</td>
<td>D_IN1</td>
<td>D_IN2</td>
<td>D_IN3</td>
<td>D_IN4</td>
<td>+5V</td>
</tr>
<tr>
<td>DRED</td>
<td>RefGen</td>
<td>DRM1/5</td>
<td>DRM2/6</td>
<td>DRM3/7</td>
<td>DRM4/8</td>
<td>Com/DRM0</td>
</tr>
</tbody>
</table>

2. COM1, COM2 and COM3 only communicate with the inverters, and COM4 is only connected to the environmental monitor and other devices, so avoid wrong correction.

3. A of COM1, COM2, COM3 and COM4 ports corresponds to the differential signal +, B corresponds to the differential signal -.

4.2.1 Connection to a single inverter

Introduce RS485 communication connection mode between EzLogger Pro and the inverter.

Through RS485, the inverter is connected to EzLogger Pro for communication, and EzLogger Pro has 3 RS485 ports, namely COM1, COM2 and COM3.

The diagram of COM1, COM2 and COM3 ports of EzLogger Pro is as follows:

![COM Ports Diagram](image2)
4.2 Connection to the Inverter

COM ports are described as follows:

<table>
<thead>
<tr>
<th>Port</th>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM1</td>
<td>A</td>
<td>RS485A, RS485 differential signal +</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>RS485B, RS485 differential signal -</td>
</tr>
<tr>
<td>COM2</td>
<td>A</td>
<td>RS485A, RS485 differential signal +</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>RS485B, RS485 differential signal -</td>
</tr>
<tr>
<td>COM3</td>
<td>A</td>
<td>RS485A, RS485 differential signal +</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>RS485B, RS485 differential signal -</td>
</tr>
</tbody>
</table>

Steps:
1. Select a RS485 communication cable of appropriate length (≤1000m).
2. First strip off the insulating layer at both ends of the communication cable.
3. Then connect one core of the communication cable with terminal A of EzLogger Pro COM port, and the other core with terminal B of EzLogger Pro COM port.
4. Another side connect to inverter, please refer to the meaning of RS485 port of inverter.

Note that COM "A" of Ezlogger Pro connect to the RS485 "A" of inverter, COM "B" of Ezlogger Pro connect to the RS485 "B" of inverter.

- RS485 communication cable shall be a standard RS485 communication shielded twisted pair wire.
- Inverter communication cable can only be connected to EzLogger Pro's COM1, COM2 and COM3.
- A single COM port of EzLogger Pro supports a maximum of 20 inverters, and 3 COM ports support a total of 60 inverters.

Description of connection of communication cable with the terminal block:
1. First press and hold the corresponding white contact sheet of the wiring terminal to spring up the elastic metal sheet of the wiring terminal.
2. Insert the stripped portion of the wire cores into the terminal.
3. Release the white contact sheet to fasten the wire cores.
4.2.2 Connection to multiple inverters

When EzLogger Pro is connected to multiple inverters, “hand-in-hand” connection method can be used; each inverter has two multiplexed RS485 communication ports, and one RS485 port of the inverter is connected to one RS485 port of the next inverter. Note that port A shall correspond to Port A, and Port B shall correspond to Port B, and the number of inverters connected to a single COM port shall not exceed 20.

![Schematic Diagram of EzLogger Pro COM4 Port]

4.3 Connection to the Environmental Monitor and Meter

When EzLogger Pro is connected to the environment monitor, meter and other devices, COM4 port shall be used.

Schematic diagram of COM4 port is as follows:

![Schematic Diagram of EzLogger Pro COM4 Port]
4.4 Connection to the Computer

Steps:
1. Insert one end of the network cable into the “NET” port of EzLogger Pro.
2. Insert the other end of the cable into the computer’s Ethernet port.

When connecting to the computer, you need to use ProMate commissioning software. Please refer to 5.1 for ProMate software settings.

4.5 Connection to the Ripple Control Receiver

Introduce the functions of Ripple Control Receiver.

In Germany and parts of Europe, power grid companies use ripple control receivers to convert power grid scheduling signals for dry contact transmission, and power stations need to use dry contact communication method to receive power grid scheduling signals.

DI terminal interface of EzLogger Pro is as follows:

![Figure 4.5-1 Schematic Diagram of EzLogger Pro DI Port](image-url)
4.5 Connection to the Ripple Control Receiver

The port is defined as follows:

<table>
<thead>
<tr>
<th>DI Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF1</td>
<td>Active power derating</td>
</tr>
<tr>
<td>1</td>
<td>D_IN1</td>
</tr>
<tr>
<td>2</td>
<td>D_IN2</td>
</tr>
<tr>
<td>3</td>
<td>D_IN3</td>
</tr>
<tr>
<td>4</td>
<td>D_IN4</td>
</tr>
<tr>
<td>REF2</td>
<td>Reactive power compensation</td>
</tr>
</tbody>
</table>

EzLogger Pro is connected to the ripple control receiver as follows:

Steps:

1. Select a cable of appropriate length, and connect one end of the cable with the ripple control receiver.
2. Connect the other end of the cable with the corresponding DI port of EzLogger Pro, and refer to Section 4.2.1 Inverter RS485 communication connection method for detailed connection.
4.6 Connection to DRED

According to the Australian safety regulations, power grid companies use DRED to convert power grid scheduling signals for dry contact transmission, and power stations need to use dry contact communication method to receive power grid scheduling signals. EzLogger Pro is connected to DRED or ripple control receiver using the same port, and the port is defined as follows when DRED function is used.

<table>
<thead>
<tr>
<th>DI Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF1</td>
<td>RefGen</td>
</tr>
<tr>
<td>1</td>
<td>DRM1/5</td>
</tr>
<tr>
<td>2</td>
<td>DRM2/6</td>
</tr>
<tr>
<td>3</td>
<td>DRM3/7</td>
</tr>
<tr>
<td>4</td>
<td>DRM4/8</td>
</tr>
<tr>
<td>REF2</td>
<td>Com/DRM0</td>
</tr>
</tbody>
</table>

When EzLogger Pro is connected to DRED, terminal connection method shall be used.

Steps:
1. Select a cable of appropriate length, and connect one end of the cable with DRED.
2. Connect the other end of the cable with the DI port of EzLogger Pro; note the definition of the port, and refer to Section 4.2.1 Inverter RS485 communication connection method for detailed connection.
5.1 How to Use LAN EzLogger Pro

After EzLogger Pro is connected to the collected data, one should connect EzLogger Pro to the Internet, so that EzLogger Pro can upload the collected data to the server. Dynamic IP (DHCP) is a default function for EzLogger Pro.

If the user’s network equipment is available with the dynamic IP (DHCP), such as router, EzLogger Pro can be connected to the Internet in a plug-and-play way simply through direct connection of the NET port of EzLogger Pro to the LAN port of the router and the enabling of the dynamic IP (DHCP) function of the router. The collected Data will be automatically uploaded.

If the network equipment is available with static IP, you will need to switch EzLogger Pro to the static IP mode, then use our ProMate software to change the IP address of EzLogger Pro into the user’s desired static IP address, and then connect to the user’s Internet, as shown in the figure below. For more information about configuration, the user may refer to the static IP address connection configuration method of ProMate.
5.2 EzLogger Pro Configuration

5.2.1 Connecting ProMate to EzLogger Pro

ProMate software is launched by us for functional configuration of EzLogger Pro, by which we can realize modification to the IP address of EzLogger Pro, quantity setting of connected inverters for port, time setting, sound and light alarm, RCR, DRED enabling configuration, field debugging, etc.

Firstly, the user needs to install “ProMate” software in the computer by downloading ProMate software from Internet (http://www.goodwe-power.com/files/ProMate.rar). Please access to the website to download the program and compete the installation.

For connection of ProMate software to EzLogger Pro, the user needs to choose between dynamic IP (DHCP) and static IP, depending on the Internet configuration.

1. How to Assign a Dynamic IP Address to EzLogger Pro:
   If the user has a dynamic IP, EzLogger Pro can be connected to the Internet in a plug-and-play way simply through the connection of the NET port of EzLogger Pro to the LAN port of the router with Internet cable. If you need to configure the EzLogger Pro, you should to connect your computer to the router with net cable. Open ProMate and click “Scan” in the ProMate software connection, so as to make the Internet connection successful. Then pull out cables from the computer and connect them to LAN port of the router, as shown in Figure 5.2-1.

![Figure 5.2-1 Connecting ProMate to EzLogger Pro by Scanning](image-url)
5.2 EzLogger Pro Configuration

2. Configuration Method for EzLogger Pro Static IP Address:
If the user has a static IP, it is necessary to switch EzLogger Pro to the static IP mode. That is, press the Reload key for about 10 seconds to reset and restart EzLogger Pro. After restart, EzLogger Pro will be switched to static IP mode (default IP: 192.168.1.200), then modify the computer’s IP address, take WIN7 as an example, the steps are as below. The user can find the methods from the Internet for modifying IP addresses of different computer systems.
(1) Switch EzLogger Pro to static IP, then use cables to connect EzLogger Pro “NET” port to the Ethernet port of the computer.
(2) Turn on the computer, right click on "Network " on the desktop, and click on “Properties”.
(3) Click on “Change adapter settings”.

![Figure 5.2-2 Open the Network Connections Window](image)

![Figure 5.2-3 Modification of Adapter Configuration](image)
(4) Pop up the local connection dialog box, right-click on “Local Connection” and then click on “Properties”.

![Figure 5.2-4 Modification of the Properties of Local Connections](image1)

Pop up a dialog box as below:

![Figure 5.2-5 Modification of Internet Protocol 4 (TCP/IPv4)](image2)
(5) Double click on “Internet Protocol 4 (TCP/IPv4)” to pop up the “Properties” dialog box of “Internet Protocol 4 (TCP/IPv4)”, then complete the setting for the dialog box in accordance with the following requirements.

The defaulted IP address for EzLogger Pro is 192.168.1.200. In order to put your computer and EzLogger Pro under the same network segment, you should set the IP address and the default gateway in 192.168.1.XXX network segment (1 ≤ XXX ≤ 250 and XXX ≠ 200).

For example:
The user can set the IP address as 192.168.1.100 and the default gateway as 192.168.1.254.

![Figure 5.2-6 Modification of the IP Address](image)

Click “Connect” button in ProMate to connect ProMate to EzLogger Pro, and the system will indicate “The connection is successful”, as shown in Figure 5.2-7.

![Figure 5.2-7 Connection between ProMate Software and EzLogger Pro in Static IP](image)
(6) Modification to the IP address of EzLogger Pro.

The user can adopt the required configuration after connecting ProMate software to EzLogger Pro.

In static IP mode, the user can configure IP address, subnet mask, gateway and DNS that can be accessed to Internet as required, as shown in Figure 5.2-8.

For example:

<table>
<thead>
<tr>
<th>The User’s IP Address</th>
<th>192.168.50.23</th>
</tr>
</thead>
<tbody>
<tr>
<td>The User’s Gateway</td>
<td>192.168.50.25</td>
</tr>
<tr>
<td>The User’s Subnet Mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>The User’s DNS</td>
<td>208.67.222.222</td>
</tr>
</tbody>
</table>

Put the above data into LAN configuration, and then click the “Set” button to complete the set. Now IP address of EzLogger Pro has been modified as the configuration as required by the user, and physical connection between EzLogger Pro and ProMate can be disconnected after the configuration is completed. Then the Internet will be available just by plugging Ethernet cable into EzLogger Pro.

Figure 5.2-8 Modification to LAN Configuration

(7) After the configuration is completed, the user can pull out the cable which connected to Ethernet port of the computer, and then insert it into the router. At the same time, the user shall restore the IP address and other parameters of the computer to default settings.
5.2.2 Quantity Configuration for Inverter Communication Port

Terminal configuration is used for setting EzLogger Pro’s COM1, COM2, COM3 ports which the quantity of inverters connecting. Assume port 1 (corresponding communication port COM1) connecting the quantity of inverters is 7, then check port 1, the quantity settings is 7, click on “Set” button to finish the configuration. As picture 5.2-9.

Please set the quantity of devices of each port according to the quantity of inverters actually connected. Upon the completion of setting, the user can check the actual communication status of inverter from the LED indicator of EzLogger Pro (see Section 2.3 LED Indicator).
5.2.3 Time Setting

Time setting will synchronize the time of EzLogger Pro and inverter and the time of synchronization server. Click on “Set Time” to pop up the following dialog box, as shown in the figure below. Then click on “OK” after setting the time, as shown in Figure 5.2–10 and Figure 5.2-11.

Figure 5.2-10 Time Setting

Figure 5.2-11 Time setting Dialog Box
5.2.4 Field Debugging

ProMate can also be applied to field installation and debugging. After installation is completed, click on “Refresh” to show whether the inverter is online or not. If the system prompts “off line”, please check whether the connection cable has any problem, and then timely solve the problems till the system shows that all the inverter are “on line”. It should be noted that it takes time to get the inverter status due to communication rate problems, as shown in Figure 5.2-12.

![Figure 5.2-12 Acquiring the Inverter Status](image)

5.2.5 DRED setting

DRED function can control the inverter’s generated power according to power grid control signal, only apply to Australia and New Zealand. Before start using DRED function, it will have to connect electricity meter well first and set inverter’s safety country, then set installation capacity and CT current ratio etc parameters. Below instructions are installation capacity and CT current ratio:

1. Installation capacity: The inverter’s sum of rated generate electricity, such as there are 2 pieces of 10KW inverters on site, then the installation capacity is to set 20KW, calculate method is 2*10KW.

2. CT current ratio: Current transformer labeled input and output current ratio. For example, labeled ratio was 200/5, then CT current ratio setting is 40.

Click “Start Using DRED” button after setting finished to achieve the configuration. As picture 5.2-13 showed.
5.2.5 DRED setting

After start using successfully, the “Refresh” column will display.

Meter power means: The electricity meter measure the grid power, display positive value means the user sell electricity power value, display negative value means the user buy electricity power value.

Inverters power means: All of the inverters’ sum of generate electricity power value.

Load power means: Load consumption power.
5.2.6 RCR setting

RCR function only apply to Germany. If the customer needs to start using RCR function, please set inverter’s safety country first, then check “Enable” to enable RCR function. As picture 5.2-15.

![Figure 5.2-15 RCR Setting](image)

5.3 Program Upgrade

Introduction to local and remote upgrade method of EzLogger Pro.

5.3.1 Upgrade EzLogger Pro

(1) Local Upgrade: Put the bin files required by upgrade in the root directory of U disk (please use the U disk with 2.0 port, FAT32 format), insert the USB flash disk into the USB port of EzLogger Pro, cut off the electricity to EzLogger Pro and then repower it, so as to enable automatic update of the program.

⚠️ The bin files for program upgrade is named as “EzLoggerPro_new.bin”. Bin files will be sent to client via E-mail. And the client shall save the received bin files in root directory of U disk, and check whether the file name is “EzLoggerPro_new.bin” or not. If not, please change into this name, otherwise inconsistent file names will cause the failure of the program upgrade. The shining of all of the eight indicator lights of EzLogger Pro in the program upgrade process indicates that the program is upgrading; the indicator lights will restore to the normal state when the program upgrade is completed. It is forbidden to cut off electricity in the program upgrade process.
Chapter VI: Data Upload and Function Configuration For Wi-Fi EzLogger Pro

2) Remote Upgrade: Upgrade program is uploaded to the server by GOODWE in the background, so as to enable automatic check and update of EzLogger Pro.

Chapter VI: Data Upload and Function Configuration For Wi-Fi EzLogger Pro

Introduce the data transfer monitoring and configuration process of Wi-Fi EzLogger Pro

Before reading Wi-Fi EzLogger Pro’s product manual, please install the antenna to ANT terminal first which is located on EzLogger Pro box’s left side and upside. The details please refer to section 2.2 box instructions.

6.1 How to use Wi-Fi EzLogger Pro

Introduce the data transfer monitoring of Wi-Fi EzLogger Pro

Please make sure the EzLogger Pro is joint up with network first and then, connect EzLogger Pro to the equipment. Under this circumstances the EzLogger Pro will upload the collected data to server. Wi-Fi-EzLogger Pro’s networking mode realized through configuring Wi-Fi module to connect to router. There are two ways for configuration process, they are webpage configuration and APP configuration. The details please refer to “Wi-Fi connection configuration” instructions which is in the accessory package.

Figure 6.1-1 Wi-Fi EzLogger Pro Monitoring System Diagram
6.2 Using ProMate to configure Wi-Fi EzLogger Pro

After Wi-Fi configuration success and EzLogger Pro connecting to router success, the “SERVER” LED on the EzLogger Pro will blink. After EzLogger Pro communicating with server successfully, the “SERVER” LED will light. Once the Wi-Fi connecting is successful, Wi-Fi module will be the STA mode, that means EzLogger Pro cannot search out Wi-Fi hotspot. If the customer needs to reconfigure the Wi-Fi module connecting to router, it will have to long press the “RELOAD” button about 5s to change Wi-Fi module to AP mode then, it can be connected to “Solar-Wi-Fi” again and reconfiguration.

Wi-Fi EzLogger Pro’s factory default is static IP (default IP: 192.168.1.200). The user should follow the static IP address connecting way to connect ProMate with EzLogger Pro. The configuration process is quite similar with LAN- EzLogger Pro, the details please refer to section 5.2.1: ProMate connecting and using.
Chapter VII : Website Monitoring

7.1 Register A New User and Add A Power Station

The data acquisition terminal operates data via RS485 inverter acquisition. The data is uploaded to the server via Ethernet, GPRS, Wi-Fi, etc., and the user can log onto the monitoring platform to browse data and operating state information, and the monitoring platform website is http://www.goodwe-power.com/. The following describes how to register and add power station information when the user logs on for the first time.

Step 1: Open the browser, then visit http://www.goodwe-power.com, and you can enter GOODWE monitoring platform homepage. Fill in the corresponding registration information, and click on “Register” to register a new user.

When registering a new user, we provide three registration entrances, which correspond to “Terminal User” “Dealer/Installer” and “Visitor” respectively. The user can select the appropriate identity for registration depending on the actual circumstances.

Here, “Visitor” is taken as an example for user registration.
7.1 Register A New User and Add A Power Station

Step 2: After user registration is completed, log on to enter the “Create/Edit Station” interface. Fill in each entry of “station Information” field correctly according to the requirements, as shown in Figure 7.1-2.

![Figure 7.1-2 Create and Edit Power Station](image)

Step 3: Fill in “Maintain EzLogger Pro” column. First enter EzLogger Pro serial number (S/N) and check code, and click on the “Add”.

![Figure 7.1-3 Create and Edit Power Station](image)
Then add the connected inverter under the corresponding EzLogger Pro, enter the inverter serial number (S/N) and check code, and click on the “Add” button. Inverter type and description shall be filled in by the user according to the actual situation.

Figure 7.1-4 Create and Edit Power Station

⚠️ Serial number and check code of EzLogger Pro and inverter can be obtained through the labels of the corresponding devices, as shown in Figure 7.1-5:

Figure 7.1-5 EzLogger Pro Label

“Power station contact” and “Power station visitor” shall be filled in by the user according to the specific circumstances. After filling in, click on “Save” to complete EzLogger Pro binding. If the power station has more than one EzLogger Pro, you can continue to add other EzLogger Pro for binding, and finally, click on “Save” to complete the registration and power station creation.
7.2 View Power Station Information

After successful registration and completion of power station creation, you can log onto GOODWE monitoring platform to view power station information through the computer (Option I), iPhone, iPad or Android mobile devices (Option II).

Option I: Log onto the monitoring site to view the information through the computer.

Step 1: Through your computer, visit the website http://www.goodwe-power.com/ to enter GOODWE monitoring platform homepage. Enter the correct user name and password, and click on “Login” to enter the system, as shown in Figure 7.2-1:

![Smart Energy Management System Login Page](image)

**Figure 7.2-1 Smart Energy Management System Login Page**

Step 2: After entering the monitoring platform, find the power station that you have created, and then you can view the detailed information about the PV power station, as shown in Figure 7.2-2:

![Smart Energy Management System Monitoring Information](image)

**Figure 7.2-2 Smart Energy Management System Monitoring Information**

Area A is the navigation bar, and Area B is the display area. The user can obtain the desired information according to his/her needs, and the corresponding information will be displayed in the display area by clicking on the corresponding navigation bar.
6.2 View Power Station Information

For more detailed monitoring system operation method, please refer to the monitoring platform user manual, and the user can visit URL http://www.goodwe-power.com/, and click on “User Manual” to download.

Option II: The user can log on to view the information through mobile phone and other mobile devices. Step 1: Log onto the monitoring platform through iPhone, iPad and Android mobile devices. The user can download and install the application software “EzViewer” in the official website homepage according to the actual situation, and the download website is: http://www.goodwe-power.com/User/AppDownload.
Take iPhone4s for example, and the relevant page is shown in Figure 7.2-5 after login:

**Figure 7.2-5 Mobile Phone Login Interface and List of Power Stations**

Step 2: Open the installed EzViewer to enter the login page, then enter your user name and password, and click on “Login”; the page displays the power station information after your login. Choose your power station, then click to enter the power station interface, and you can find the desired information, as shown in Figure 7.2-6:

**Figure 7.2-6 Power Station Information**
## Chapter VIII : Technical Specifications

### Communication management

<table>
<thead>
<tr>
<th>Communication</th>
<th>Inverter communication</th>
<th>3 x RS485</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PC communication</td>
<td>10/100M Ethernet</td>
</tr>
<tr>
<td>Wireless module (optional)</td>
<td></td>
<td>Wi-Fi; GPRS</td>
</tr>
<tr>
<td>Number of managed devices</td>
<td>RS485</td>
<td>60 (The number of devices connected to a single RS485 port shall not exceed 20)</td>
</tr>
<tr>
<td>Communication distance</td>
<td>RS485</td>
<td>1000m (shielded twisted pair wire shall be used)</td>
</tr>
<tr>
<td></td>
<td>Ethernet</td>
<td>100m</td>
</tr>
<tr>
<td></td>
<td>Wi-Fi</td>
<td>15m (reference value)</td>
</tr>
<tr>
<td></td>
<td>GPRS</td>
<td>Not limited</td>
</tr>
</tbody>
</table>

### General parameters

<table>
<thead>
<tr>
<th>General parameters</th>
<th>Power adapter</th>
<th>Input: 100 ~ 240Vac, 50/60Hz, output: 12Vdc 1.5A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Power consumption</td>
<td>General 3W, maximum 6W</td>
</tr>
<tr>
<td></td>
<td>Storage capacity</td>
<td>16MB, expandable to 8GB through an optional SD card</td>
</tr>
<tr>
<td></td>
<td>Dimensions (L * W * H)</td>
<td>190<em>118</em>37mm</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
<td>500g</td>
</tr>
<tr>
<td></td>
<td>Operating temperature</td>
<td>-20°C ~ +60°C</td>
</tr>
<tr>
<td></td>
<td>Relative humidity (no condensation)</td>
<td>5% ~ 95%</td>
</tr>
<tr>
<td></td>
<td>IP rating</td>
<td>IP20</td>
</tr>
<tr>
<td></td>
<td>Installation method</td>
<td>Wall mounting, table surface mounting, rail mounting</td>
</tr>
<tr>
<td></td>
<td>Display</td>
<td>8 LED indicators</td>
</tr>
</tbody>
</table>
Chapter IX : Certification and Warranty

9.1 Certification Mark

CE

9.2 Warranty Period

Except as otherwise provided in the contract, GoodWe provides two-year standard warranty for
EzLogger Pro.

9.3 Warranty Certificate

The users shall keep the product warranty card and purchase invoice properly in the product warranty
period, and also keep the product nameplate legible; otherwise, GoodWe is entitled to refuse to
provide quality warranty.

9.4 Warranty Conditions

On the premise that the product is used according to GoodWe User Manual, if any product failure
occurs within the warranty period due to quality problems, GoodWe provides the following three ways
of warranty according to the actual circumstances:
1. Return the product to the factory for maintenance.
2. On-site maintenance.
3. Product replacement (For discontinued products, it is allowed to replace with the product of
equivalent value).

9.5 Disclaimer

The following circumstances are not covered by the warranty:
1. Product or parts have been beyond the warranty period (unless both Parties have signed an
agreement for extension of warranty service). Failures or damage caused due to operation in
violation of the product manual or relevant installation and maintenance requirements, unsuitable
operating environment, improper storage, misuse, etc.
2. Damage caused due to insufficient ventilation. Failure or damage caused due to installation, repair,
alteration or disassembly by any person other than GoodWe or the agents and personnel
designated by GoodWe.
3. Failure or damage caused due to unforeseen factors, man-induced factors, force majeure or other
similar reasons, and other failures or damage not due to GoodWe product quality problems.