GOODWE

User Manual

Smart Data Logger

EzLogger Pro

V1.3-2024-06-28

CONTENT

Chapter I: Safety Precautions

1.1 Safety Instructions

EzLogger Pro produced by GoodWe Technologies 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

	Minor or moderate injury may be caused
	It shall not be disposed of as ordinary waste, a special route is required for recycling
	Keep upright, and do not tilt or put upside down
	Recyclable
	Fragile! Handle with care
	Keep away from moisture
	CE mark
	Points of attention
	Explanation

Chapter II: Product Introduction

Introduce the appearance and function of EzLogger Pro.

2.1 Product Introduction

Introduce the main functions of EzLogger Pro.

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, watthour meter and other devices in the photovoltaic power generation system.

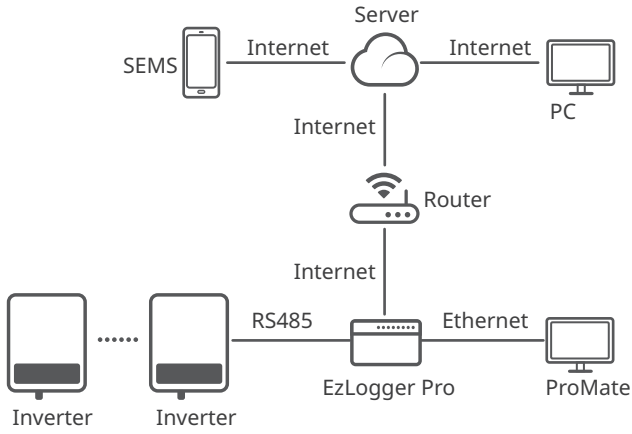


Figure 5.1-1 LAN EzLogger Pro Monitoring System Diagram

2.2 Appearance Description

Introduce the appearance, specifications and ports of EzLogger Pro.

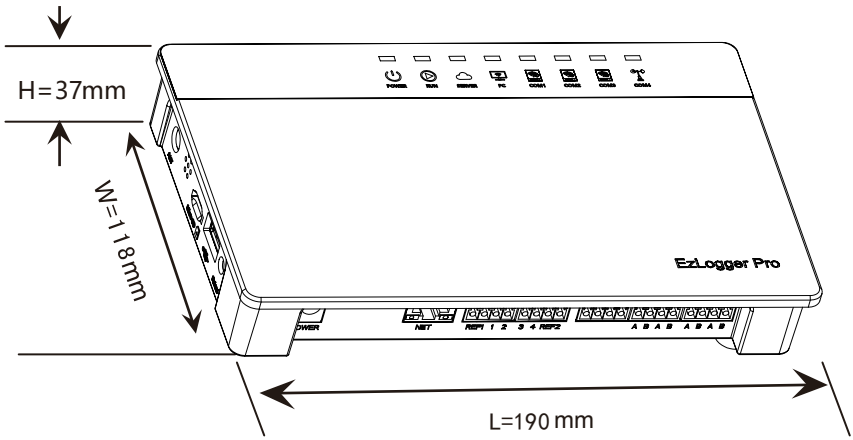


Figure 2.2-1 External View of EzLogger Pro

Front of the box

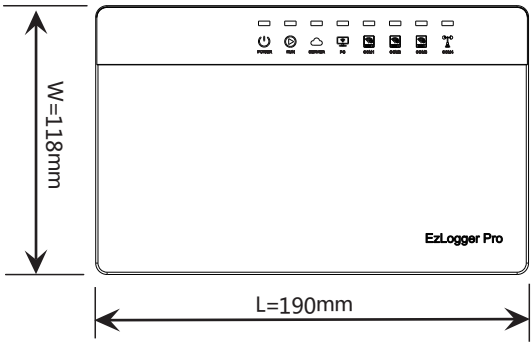


Figure 2.2-2 Front View of EzLogger Pro Box

Side of the box

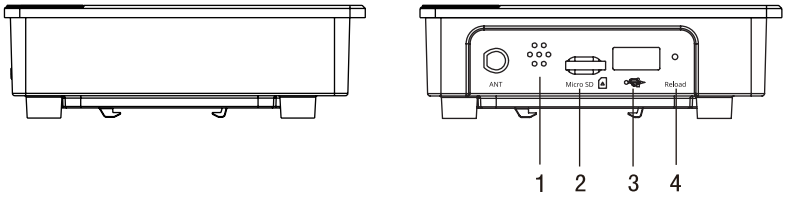


Figure 2.2-3 Side View of EzLogger Pro Box

No.	Port	Port Description
1	Sound alarm	Buzzer sound hole
2	Micro SD	SD memory card slot. Only for SCB3000.
3	USB	USB slot for FAT32 USB with 2.0 interface. Only for upgrading EzLogger Pro.
4	Reload	Switch the IP mode of the EzLogger Pro • Long press the button for 10s to switch the EzLogger Pro from dynamic IP mode to static IP mode. The indicator lights up from right to left after switching the mode. • Long press the button for 3s to switch the EzLogger Pro from static IP mode to dynamic IP mode. The indicator lights up from left to right after switching the mode.

Back of the box

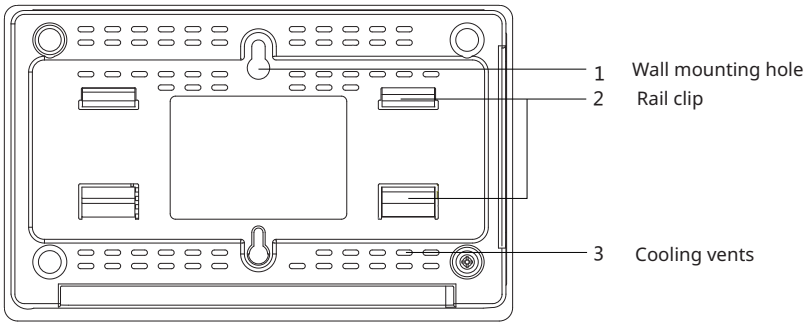


Figure 2.2-4 Back View of EzLogger Pro Box

Bottom surface of the box

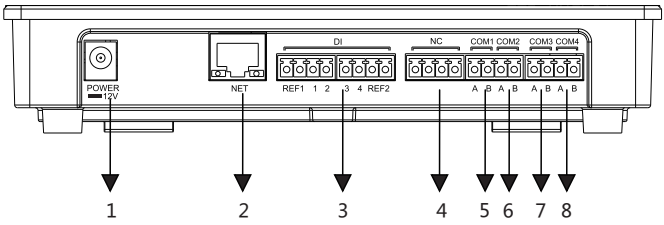


Figure 2.2-6 Bottom View of EzLogger Pro Box

No.	Port	Port Description
1	POWER	Adapter 12VDC input
2	NET	Ethernet port
3	DI	DRED or RCR function port
4	NC	Function reserved
5	COM1	RS485 communication port 1 for inverter
6	COM2	RS485 communication port 2 for inverter
7	COM3	RS485 communication port 3 for inverter
8	COM4	RS485 communication port 4 for environmental monitor, smart meter, and other devices

Notice: 1. COM1, COM2, COM3 can only communicate with the inverter. COM4 can only connect to device like environment monitoring device. Make sure that the ports are connected to right devices.
2. For COM1, COM2, COM3, and COM4 ports, A corresponds to the differential signal +, and B corresponds to the differential signal -.

2.3 Description of LED Indicators

Introduce the meaning of the LED indicators.

The LED indicators are as follows:

Figure 2.3-1 Explanatory Drawing of LED Indicators

Description of the LED indicators is as follows:

Port	Status	Status Description
POWER	Blue light On	Power supply is normal
	Blue light Off	No power supply
RUN	Blue light flashes (1s On/Off alternately)	EzLogger Pro is running properly
	Blue light continue On or Off	EzLogger Pro is not running properly
SERVER	Blue light continue On	EzLogger Pro can communicate with the server properly
	Blue light flashes (1s On/Off alternately)	EzLogger Pro is properly connected to the router, but not connected to the external network server
	Blue light Off	EzLogger Pro network is not connected
PC	Blue light On	EzLogger Pro is connected to the computer software ProMate
	Blue light Off	EzLogger Pro is not connected to the computer software ProMate
COM1	Blue light On	Number of inverters actually acquired by EzLogger Pro is equal to the parameter setting
	Blue light flashes (1s On/Off alternately)	Number of inverters actually acquired by EzLogger Pro is less than the parameter setting
	Blue light flashes (1s On and 3s Off alternately)	Number of inverters to be acquired according to EzLogger Pro the parameter setting is not set
	Blue light Off	No inverter data acquired by EzLogger Pro
COM2	Blue light On	Number of inverters actually acquired by EzLogger Pro is equal to the parameter setting
	Blue light flashes (1s On/Off alternately)	Number of inverters actually acquired by EzLogger Pro is less than to the parameter setting
	Blue light flashes (1s On and 3s Off alternately)	Number of inverters to be acquired according to EzLogger Pro parameter setting is not set
	Blue light Off	No inverter data acquired by EzLogger Pro

COM3 	Blue light On	Number of inverters actually acquired by EzLogger Pro is equal to that to the parameter setting
	Blue light flashes (1s On/Off alternately)	Number of inverters actually acquired by EzLogger Pro is less than the parameter setting
	Blue light flashes (1s On and 3s Off alternately)	Number of inverters to be acquired according to EzLogger Pro parameter setting is not set
	Blue light Off	No inverter data acquired by EzLogger Pro
COM4 	Blue light On	Communication of external environmental monitor and other devices is normal
	Blue light Off	Not connected to external device like environmental monitor, or fail to communicate with external device.

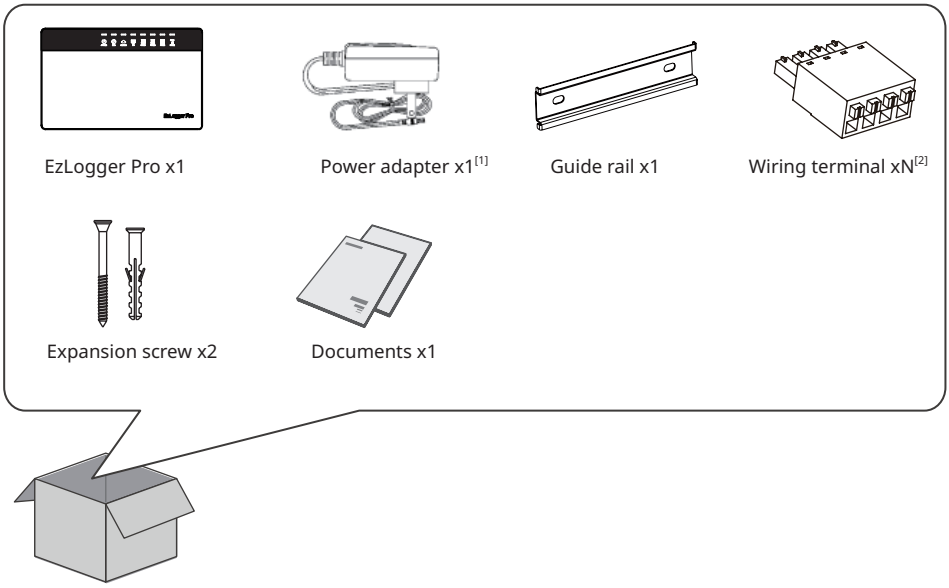
Chapter III: Equipment Installation

Introduce the packaging information and installation process of EzLogger Pro.

3.1 Packaging Information

Introduce the packaged accessories 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:



[1]: Power adapter models will be determined according to the safety regulations of export destination countries.

[2]: N: 2 in China and 4 in areas except China.

3.2 Equipment Installation

Introduction the installation process of EzLogger Pro.

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

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.

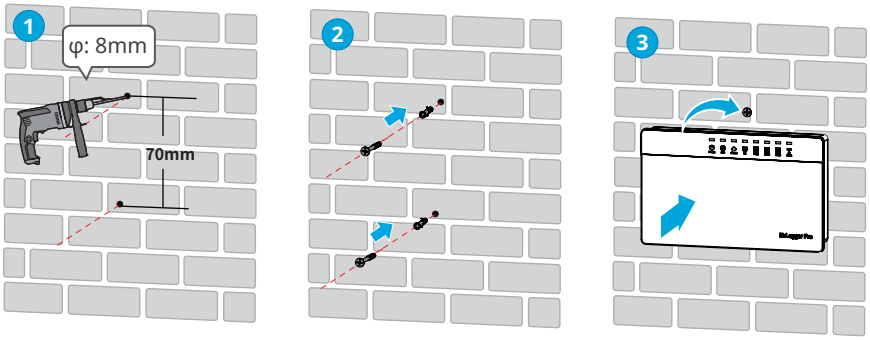


Figure 3.2.2-1 Schematic Diagram of Wall Mounting of EzLogger Pro

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.

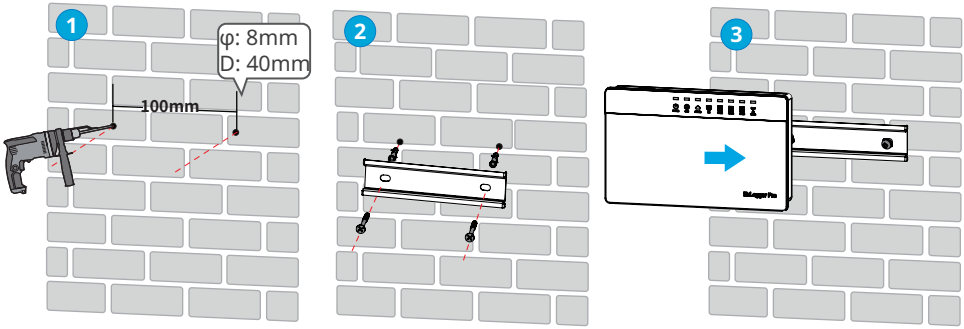


Figure 3.2.2-2 Schematic Diagram of Rail Mounting

Chapter IV: Electrical Connection

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

4.1 Port Description

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:

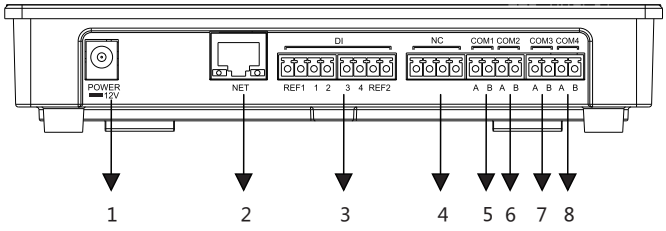


Figure 4.1-1 Schematic Diagram of Ports on the Bottom Surface of Ezlogger Pro

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

No.	Port	Port Description
1	POWER	Adapter 12VDC input
2	NET	Ethernet port
3	DI	DRED or RCR function port
4	NC	Function reserved
5	COM1	RS485 communication port 1 for inverter
6	COM2	RS485 communication port 2 for inverter
7	COM3	RS485 communication port 3 for inverter
8	COM4	RS485 communication port 4 for environmental monitor and other devices

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

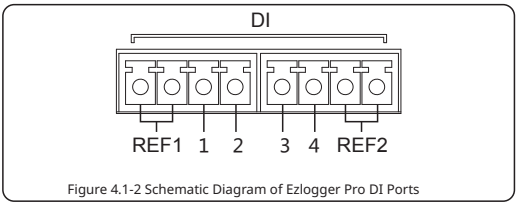


Figure 4.1-2 Schematic Diagram of Ezlogger Pro DI Ports

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

	REF1	1	2	3	4	REF2
RCR	+5V	D_IN1	D_IN2	D_IN3	D_IN4	+5V
DRED	RefGen	DRM1/5	DRM2/6	DRM3/7	DRM4/8	Com/DRM0

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 Connection to the Inverter

Introduce how EzLogger Pro is connected to the inverter.

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 COM 3.
The diagram of COM1, COM2 and COM3 ports of EzLogger Pro is as follows:

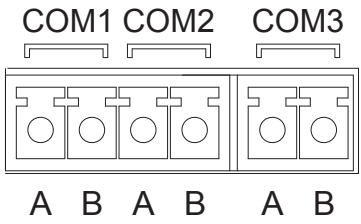


Figure 4.2.1-1 Schematic Diagram of COM1, COM2 and COM3 Ports of EzLogger Pro

COM ports are described as follows:

Port	Symbol	Description
COM1	A	RS485A, RS485 differential signal +
	B	RS485B, RS485 differential signal -
COM2	A	RS485A, RS485 differential signal +
	B	RS485B, RS485 differential signal -
COM3	A	RS485A, RS485 differential signal +
	B	RS485B, RS485 differential signal -

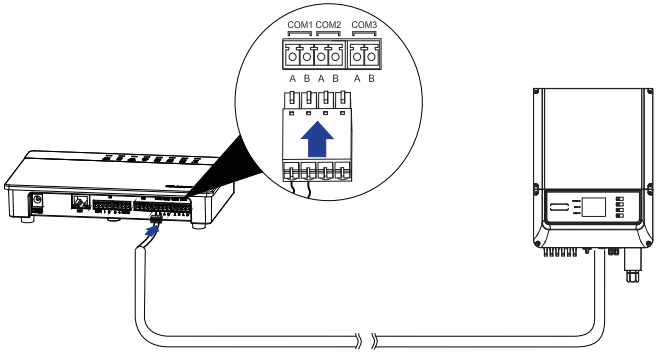


Figure 4.2.1-2 Wiring Diagram of EzLogger Pro COM Ports

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.

⚠

1. RS485 communication cable shall be a standard RS485 communication shielded twisted pair wire.
2. Inverter communication cable can only be connected to EzLogger Pro's COM1, COM2 and COM3.
3. 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 orange 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 orange contact sheet to fasten the wire cores.

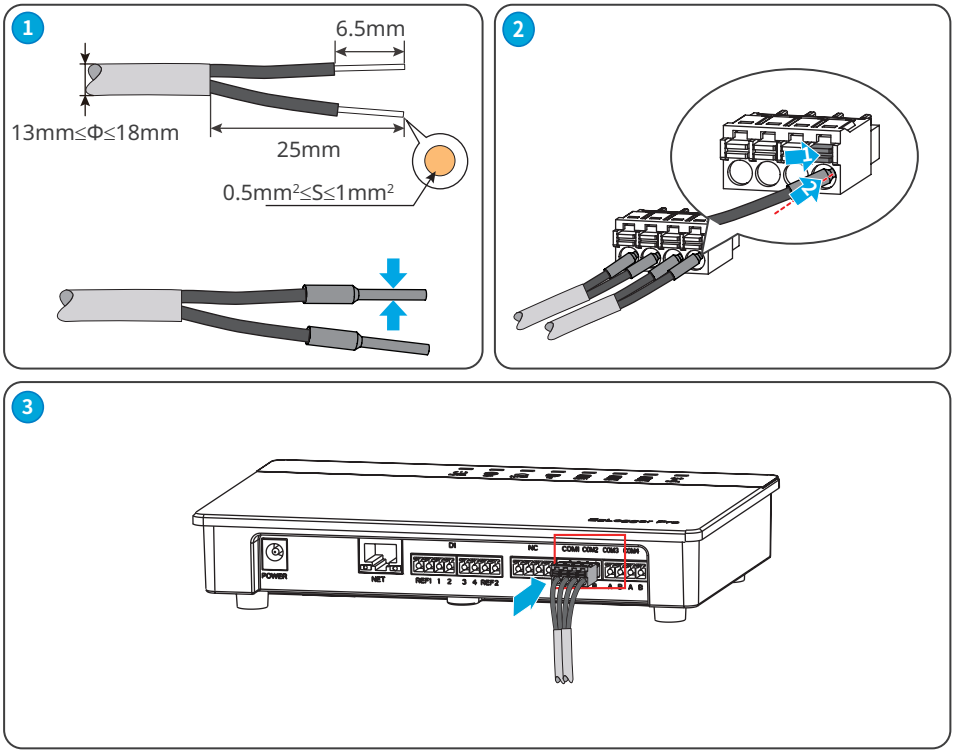


Figure 4.2.1-3 Wiring of EzLogger Pro COM port

4.2.2 Connection to multiple inverters

Introduce how EzLogger Pro is connected 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. The number of inverters connected to a single COM port shall not exceed 20, and number of inverters connected to three ports shall not exceed 60.

When inverters of different models are connected, do not mix connect the inverters, which means that inverters of the same model can be connected to one port, but inverters of different models should be connected to different ports.

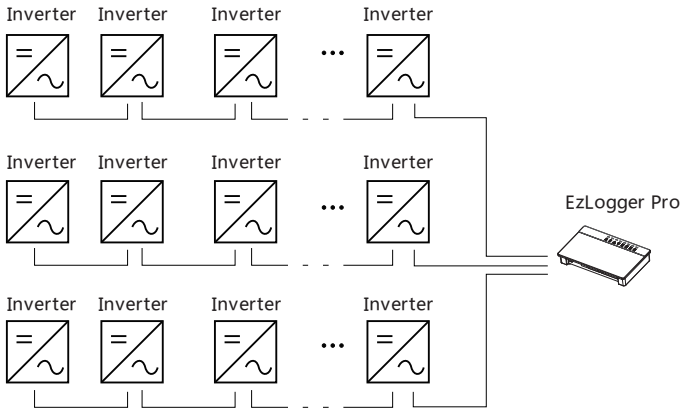


Figure 4.2.2-1 Schematic Diagram of EzLogger Pro

4.3 Connection to the Environmental Monitor and Meter

Introduce how EzLogger Pro is connected 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:

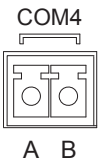


Figure 4.3-1 Schematic Diagram of EzLogger Pro COM4 Port

Description of COM4:

Port	Symbol	Description
COM4	A	RS485A, RS485 differential signal +
	B	RS485B, RS485 differential signal -

Steps:

1. connect one end of the communication line to the RS485 port of the environment monitor and the meter.
2. connect the other end of the communication line to the COM4 port of EzLogger Pro.

Please make sure that the RS485 + of the environmental monitor and meter is connected to COM4 "A" of EzLogger Pro, and the RS485 - of the environmental monitor and meter is connected to COM4 "B" of EzLogger Pro. Environmental monitor , meter and other devices can only be connected to COM4.

4.4 Connection to the RCR/DRED

Introduce the functions of RCR and DRED.

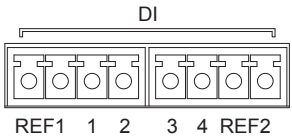


Figure 4.4-1 Schematic Diagram of EzLogger Pro DI Port

In Germany and parts of Europe, power grid companies use Ripple Control Receiver (RCR) 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 provides RCR signal control port to meet power grid scheduling requirements in regions such as Germany.

Functin	Port	Silkscreen	Definition
RCR	DI	REF1	+5V
		1	D_IN1
		2	D_IN2
		3	D_IN3
		4	D_IN4
		REF2	+5V

Short circuit the RCR port as follows:

	1	2	3	4
REF1	100%	60%	30%	0%
REF2	PF=1	PF=0.95	PF=0.9	PF=0.85

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

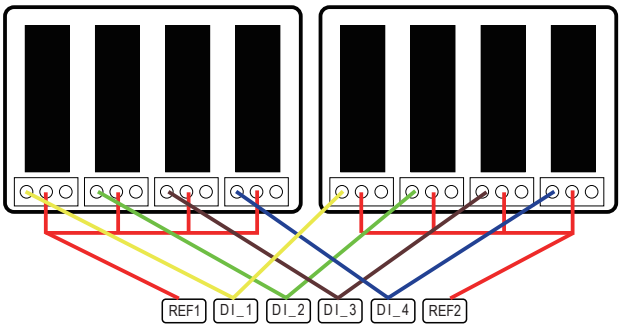


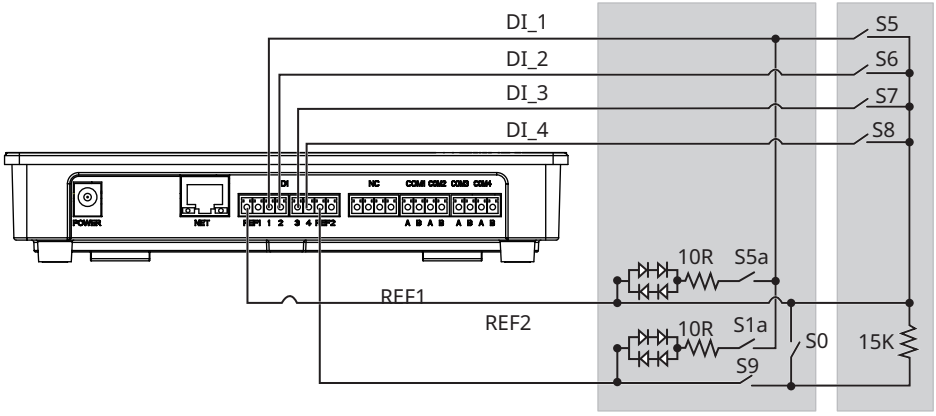
Figure 4.4-2 Diagram of Connection of EzLogger Pro DI Port to RCR

DRED (Demand Response Enabling Device) : provides DRED signal control port to meets DRED requirements in regions like Australia.

Function	Port	Silkscreen	Definition
DRED	DI	REF1	RefGen
		1	DRM1/5
		2	DRM2/6
		3	DRM3/7
		4	DRM4/8
		REF2	Com/DRM0

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.



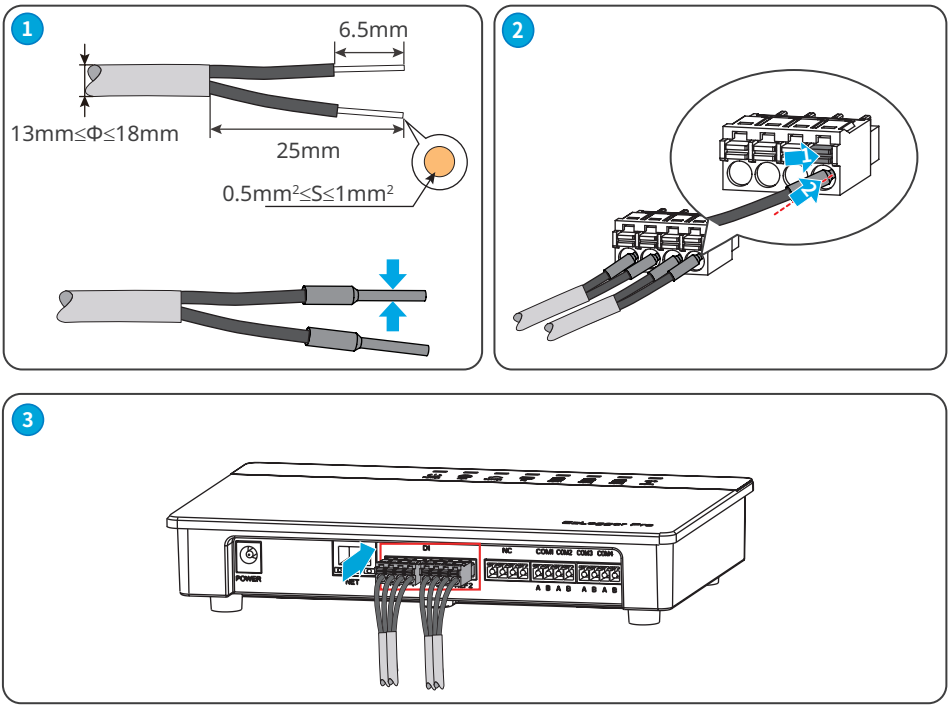


Figure 4.4-3 Wiring of EzLogger Pro DI port

4.5 Connection to the Computer

Introduce how EzLogger Pro is connected 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.

If the PC provides USB or Type-C port only, prepare a network port adapter to connect the EzLogger and the PC.

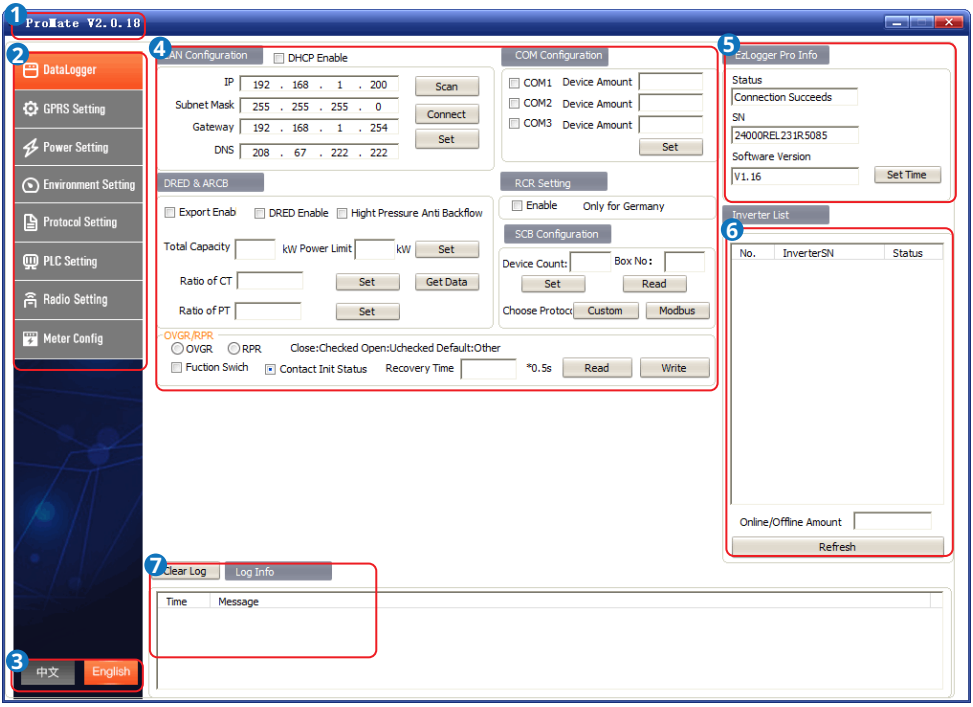
Chapter V: EzLogger Pro Configuration

Set parameters and monitoring devices through ProMate.

WARNING

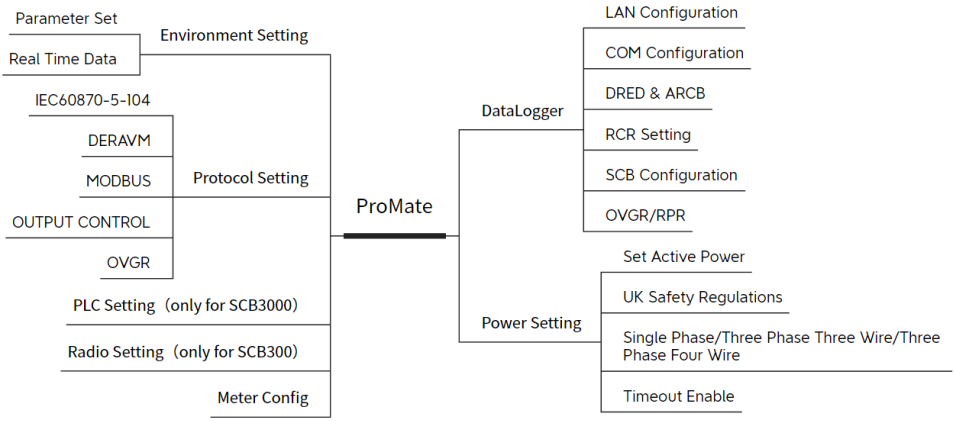
- The web firmware version shown in this document is V2.0.18. The screenshots are for reference only. The actual display may differ.
- The name, range, and default value of the parameters are subject to change.The actual display prevails.

Layout



No.	Function	Description
1	ProMate version	Displays the current ProMate version.
2	Menu list	Before configurations, select the corresponding menu according to the actual need first, then set the specific function. Some functions are not supported.
3	Language	Switch the language based on actual needs.
4	Setting	Displays the parameter setting interface.
5	EzLogger Pro Info	Displays EzLogger Pro information and connection status, or set the system display time.
6	Inverter list	Displays inverter information and connection status.
7	Log Info	• Displays operation logs, such as whether the operation is done. • Click clear log to clear all the logs.

Menus of ProMate



Icon description

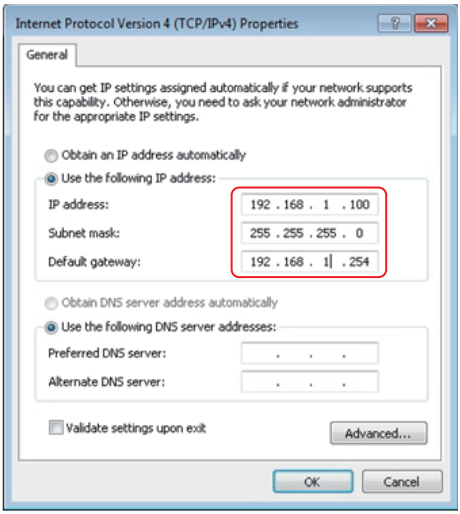
Icon	Description
	Select icon, indicates that the parameter is not selected. Click to select the parameter.
	Select icon, indicates that the parameter is selected.
	Click to adjust the parameter value.

5.2 Connecting the ProMate

Prerequisites:

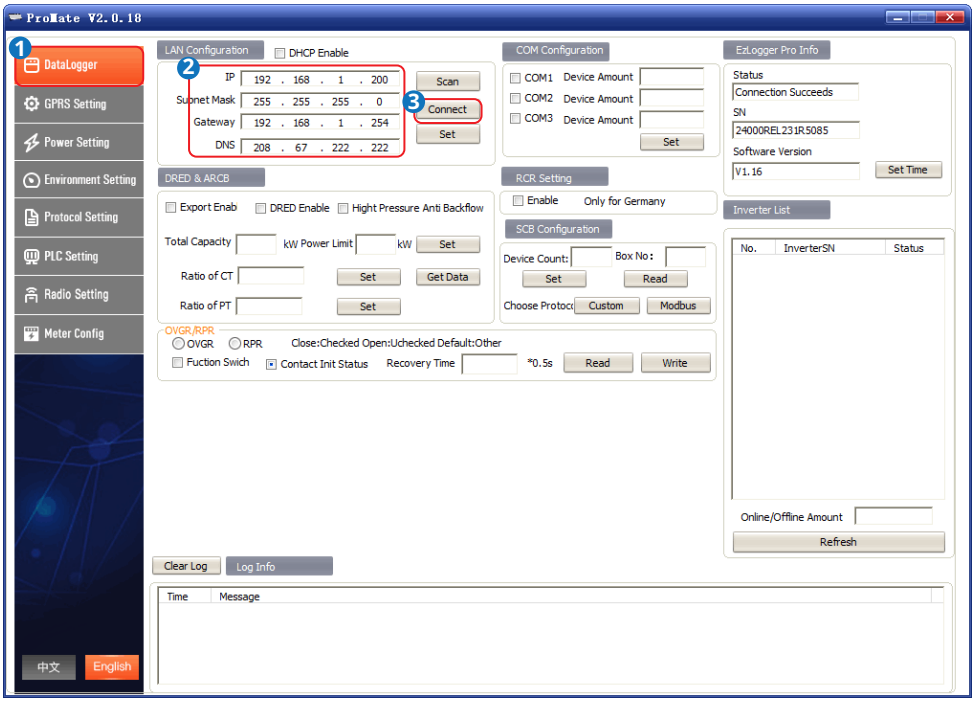
- Click https://en.goodwe.com/Skippower/downloadFileF?id=630&mid=60 to download the ProMate, and configure the EzLogger Pro.
- Complete installation and electrical connection, ensure that the EzLogger Pro is working properly.

Step 1 Long press the Reload button for 10 seconds to switch the EzLogger Pro to static IP mode, then the indicator will light up from right to left.
Step 2 Connect the PC to the NET port of the EzLogger Pro
Step 3 Set the IP address of the EzLogger Pro and the PC on the same network segment.



No.	IP Parameter	Default value of the EzLogger	Example value of the PC
1	IP Address	192.168.1.200	192.168.1.100
2	Subnet Mask	255.255.255.0	255.255.255.0
3	Default Gateway	192.168.1.254	192.168.1.254

Step 4 Start ProMate, and click**DataLogger** > **LAN Configuration** to set the IP parameters. Click **Connect** button. The ProMate is successfully connected to the EzLoggerPro when a successful connection message is popped up. The PC indicator  will turn to steady on.

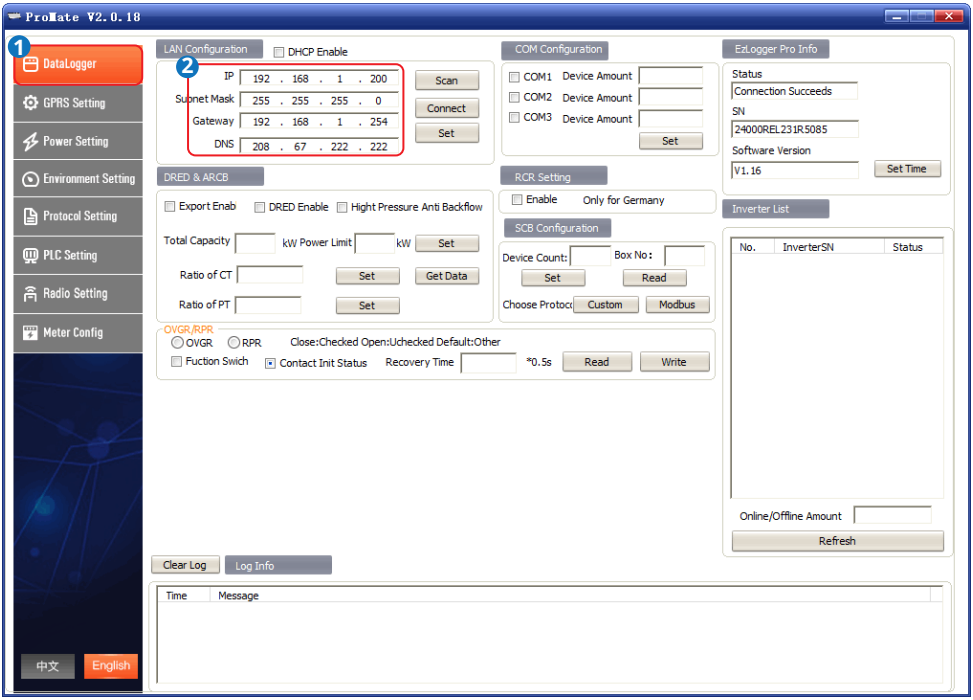


5.3 Setting Parameters of the EzLoggerPro

5.3.1 Setting Network Parameters

NOTICE

- If the network device is in static IP mode, modify network information such as the IP address of the EzLogger Pro to enable the communication between the EzLogger and network device.
- If the network device is in dynamic IP mode(DHCP), tick DHCP Enable, and press the Reload button more than 3 seconds to switch the EzLogger Pro to dynamic IP mode. After mode switching, the indicator will light up from left to right.
- Press the Reload button to switch the IP mode of the EzLoggerPro will restore the network parameters.
- After parameter configuration, connect the EzLoggerPro to the network device, such as a router or a switch. After successfully connect EzLogger Pro to the network, the SERVER indicator will turn to steady on, and the EzLoggerPro will upload collected data to the monitoring platform.
- When the default IP is applied, click **Connect** every time when the ProMate is started. When a modified IP is applied, enter the new IP and click **Connect** every time when the ProMate is started.

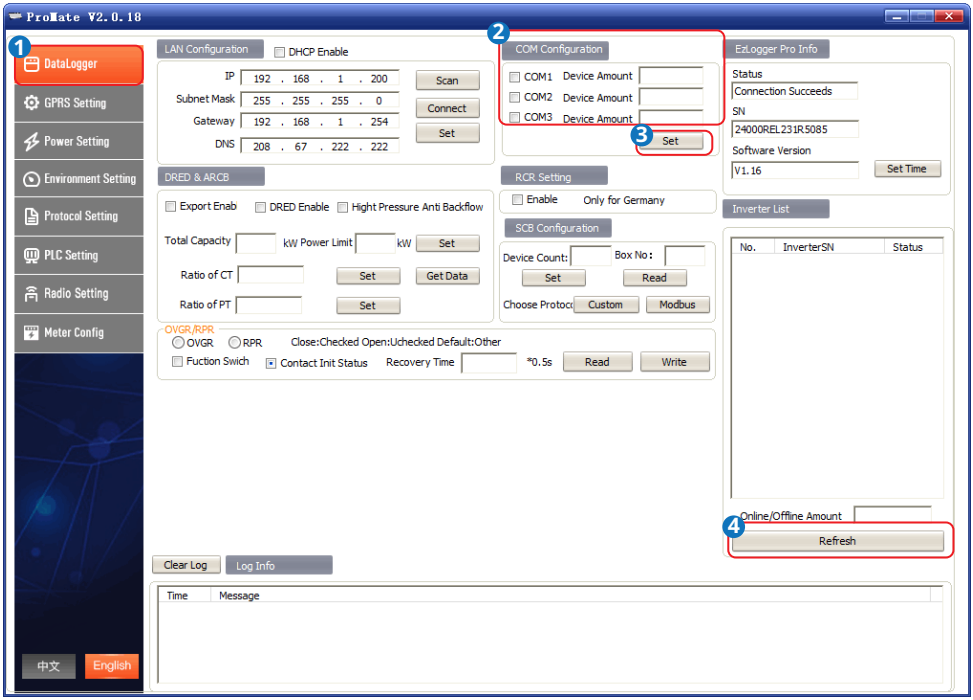


Parameter	Description
DHCP Enable	Enable or disable DHCP.
IP	• Do not configure the parameters when DHCP is enabled. • Configure the parameters according to the router or switch information when DHCP is disabled.
Subnet Mask	
Gateway	
DNS	
Scan	• Click **Scan** to obtain current IP information when the EzLoggerPro and PC are in the same LAN, and using dynamic IP. • Static IP is recommended if the on site network is unstable as **Scan** may not work.
Connect	After parameter settings, click **Connect** to connect the ProMate and EzLoggerPro.
Set	Click **Set** to save the settings after filling the the parameters. The EzLogger Pro will be restarted immediately after setting.

5.3.2 Setting Port Parameters

NOTICE
• Set the number of actual connected inverter based on actual connections. • After setting the inverter number, observe the COM1/2/3 LED indicators to confirm the communication status of the inverter.

Step 1 Click tab **DataLogger** to set the parameters.
Step 2 Tick the pots to be configured and enter corresponding **Device Amount** in **COM Configuration** part. For example, tick COM1 and set **Device Amount** to 3.
Step 3 Click Set to complete the configuration.
Step 4 Click **Refresh** in **Inverter List** to check whether the inverter is online. If the number of online inverters is different from actual number, check the communication between the inverter and the EzLoggerPro.



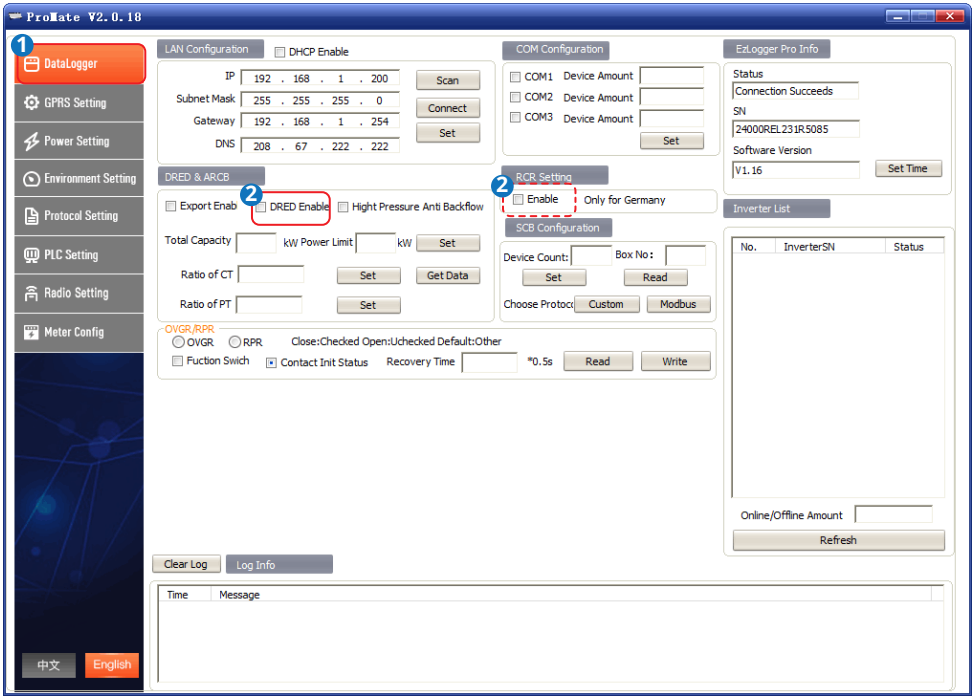
5.3.3 Setting DRED/RCR

NOTICE

- The standards of Australia and other regions require that the inverter must pass DRM (DEMAND RESPONSE MODES) certification.
- The standards of German and other regions require that the inverter must provide signal controlling port for RCR (Ripple Control Receiver), which can be used for grid scheduling.
- For inverters such as SMT/MT, if you need to realize the RCR function, enable the **MODBUS** in **Protocol Setting** simultaneously. Otherwise, the RCR cannot take effect.

Step 1 Click tab **DataLogger** to set the parameters.

Step 2 Tick **DRED Enable** or RCR **Enable**.



5.3.4 Setting Power Limit

NOTICE

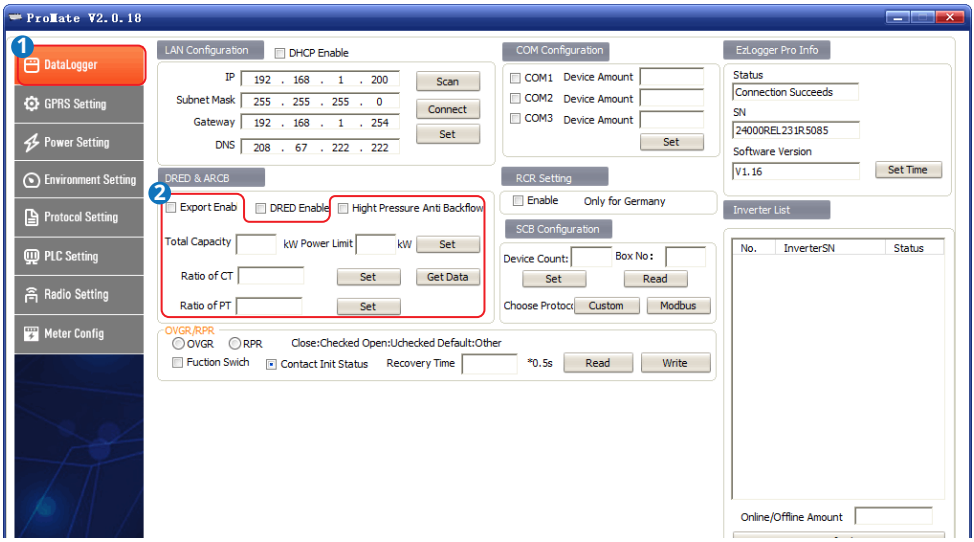
- If the power generated by the PV system cannot be consumed by loads, the remaining power will be fed into the utility grid. Control the power fed into the grid by setting the power limit parameters.
- Install a GoodWe smart meter to realize power limit function.
- When EzLogger Pro version is no less than 16 and ProMate version is no less than V2.0.19 and connected to an SMT series inverter with software version no less than 20, the anti-reverse flow and RCR/DRED functions can be enabled at the same time.
- With both power limit and RCR/DRED enabled, if there is a conflict in the power limits fed into the grid, the lower limit takes precedence.
- After setting the power limit parameters, observe the COM4 indicator to check whether the smart meter is communication properly.

Step 1 Click tab **DataLogger** to set the parameters.

Step 2 Tick **Export Enab** or **High Pressure Anti Backflow** based on actual needs.

Step 3 Set the power limit parameters based on actual situation.

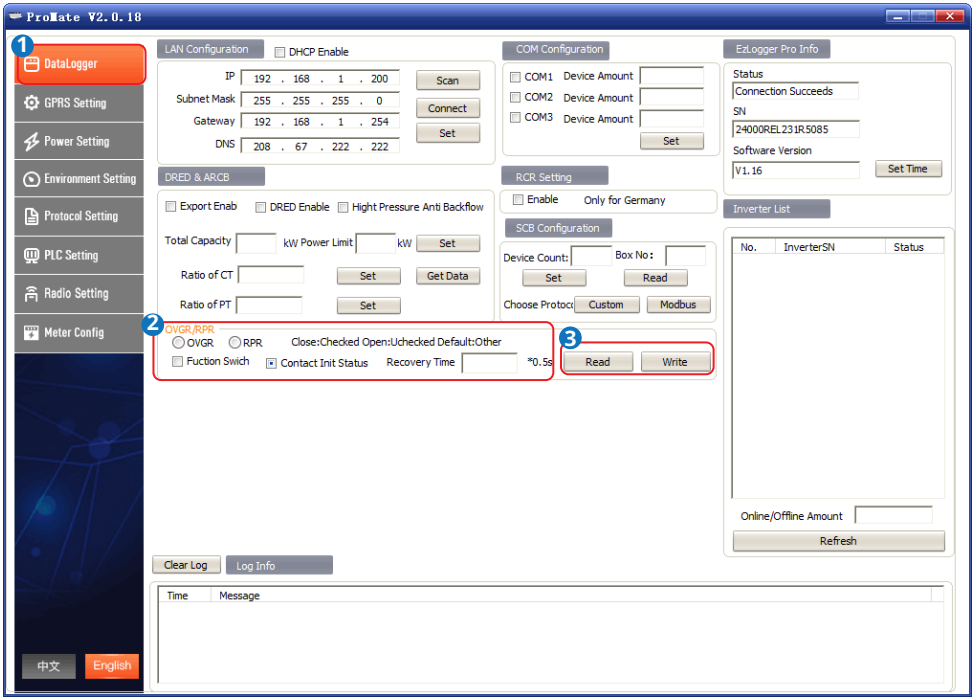
Step 4 Click **Set** to complete the settings.



Parameter	Description
Export Enab	Enable or disable power limit function.
High Pressure Anti Backflow	Only for Acrel DTSD1352.
Total Capacity	Set the total capacity of all inverters connected to EzLoggerPro.
Power Limit	Set the maximum power that is allowed feed into the utility grid based on local grid standards and requirements.
Ratio of CT	Set the ratio of the primary current to the secondary current of the CT.
Ratio of PT	Set the ratio of the primary voltage to the secondary voltage of the VT. Only for High Pressure Anti Backflow.

5.3.5 Setting OVGR/RPR

The standards of Japan and some other regions require that the OVGR can connect to any DI port of the EzLogger to shut down the inverter over OVGR signals.



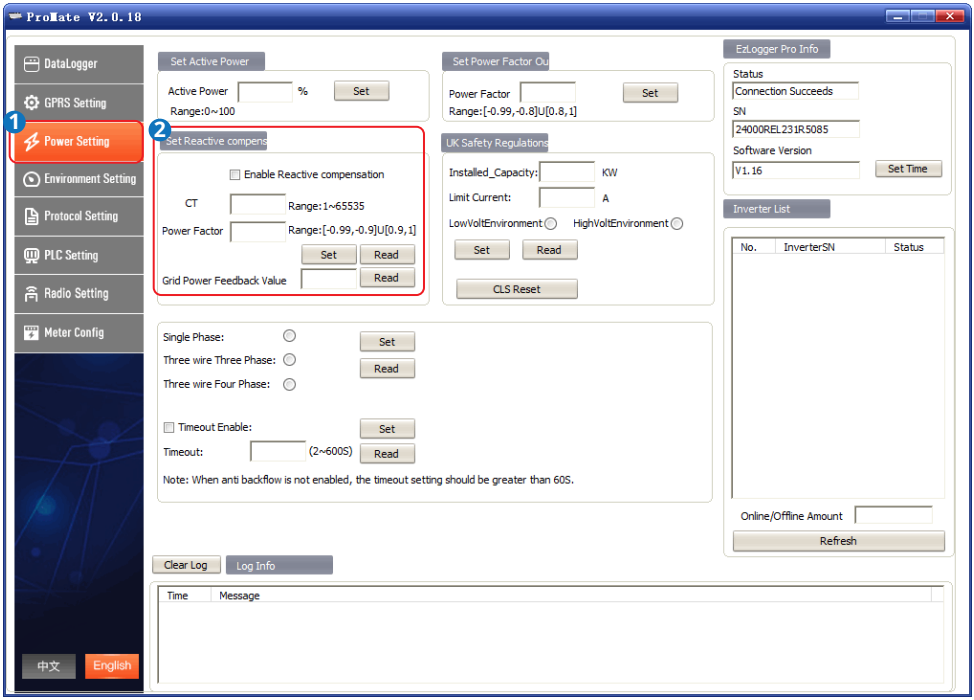
Parameter	Description
OVGR	Tick OVGR function.
RPR	Tick RPR function.
Function Switch	Enable or disable OVGR/RPR function.
Contact Init Status	Set the initial status of OVGR/RPR. Supported: normally close contact (ticked) or normally open contact(unticked).
Recovery Time	The time required to restore grid connection when the inverter starts up again after the remote shutdown function has been triggered.

5.4 Setting Power Parameters

5.4.1 Setting Reactive Compensation Parameters

NOTICE

Reactive power compensation settings are only available to some inverterss. Contact the After-sales Service for more information if needed.

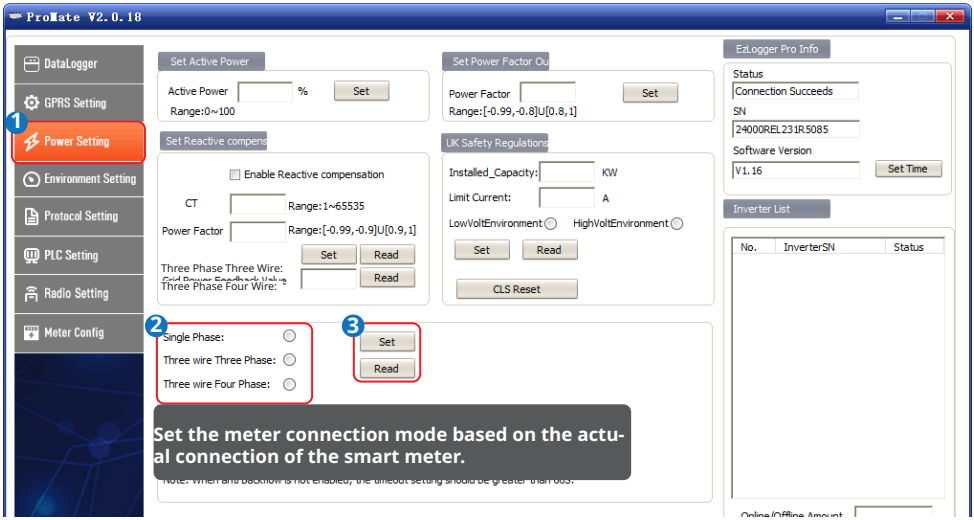


Parameter	Description
Enable Reactive Compensation	Enable or disable reactive power compensation function.
CT	Set the ratio of the primary current to the secondary current of the CT.
Power Factor	Set the power factor of the inverter.
Grid Power Feed-back Value	Click **Read** to read the current power factor value.

5.4.2 Setting the Meter Connection Mode

NOTICE

Only for GoodWe GM330 smart meter.

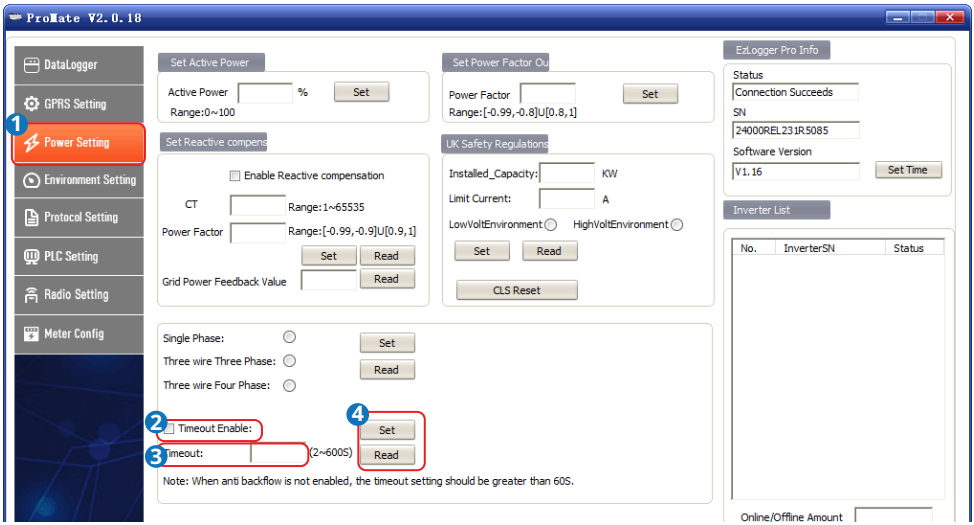


5.4.3 Setting the Timeout Parameters

Enable Timeout Enable and set the Timeout period, the inverter will automatically disconnect when the communication between EzLoggerPro and the inverter is disconnected for more than the timeout period.

NOTICE

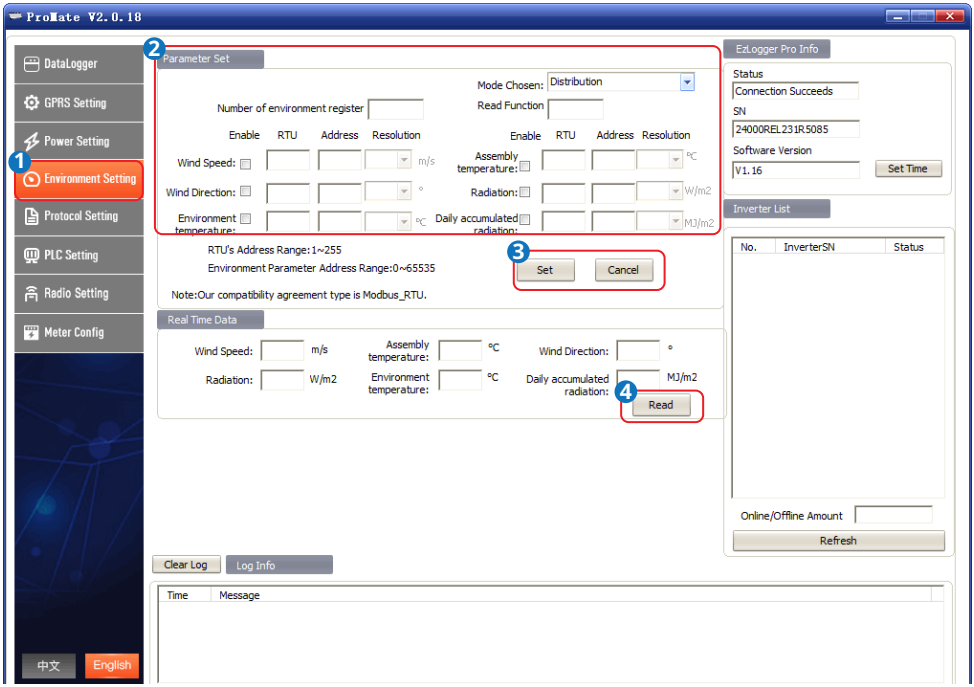
The Timeout Enable function is available to some inverters. Contact the After-sales Service for more information if needed.



5.5 Setting the Environment Parameters

NOTICE

- Configure the environment parameter when the EzLoggerPro is connected to a third party environment monitoring instrument.
- Connect the environmental instrument to the COM4 port of the EzLoggerPro.
- Click **Read** to obtain the real time environment parameters after setting the parameters.
- Observe the COM4 LED indicator to check the communication status of the environment monitoring instrument after the configuration.



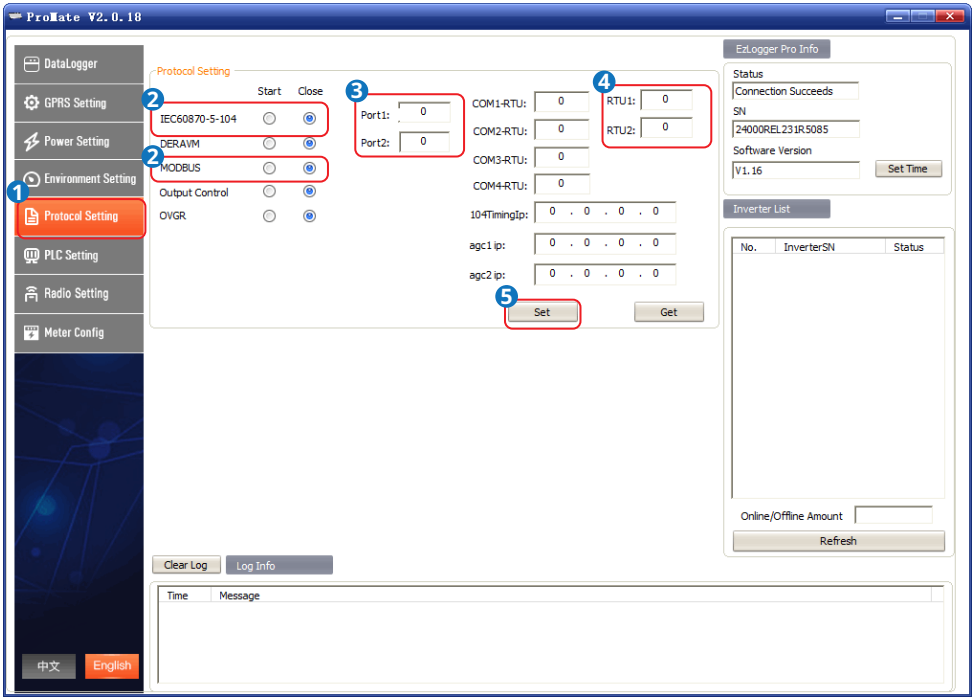
Parameter		Description
Mode Chosen		Set the mode bsed on the actual connection between the environment monitoring instrument and theEzLoggerPro. Supports **Distribution** or **Centralized**.
Number of environment register		Set based on Supports: 1-6.
Wind Speed/ Wind Direction/ Environment Temperature/ Assembly Temperature/ Radiation/ Daily Accumulated Radiation	Enable	Tick to select the corresponding function.
	RTU	Set based on the actual situation of the environment monitoring instrument. All the RTU should be the same if the mode is set to **Centralized**.
	Address	
	Resolution	
Read		Set based on the actual environment monitoring instrument, usually set to 03.

5.6 Setting Protocol Parameters

5.6.1 Setting IEC104 Parameters

NOTICE

- Only for MT G2 series inverters.
- Set the IEC104 parameters when the EzLogger transmits data through the IEC104 protocol.
- Enable IEC104 and MODBUS at the same time, otherwise, the function cannot work properly.
- Make sure that the number of inverters connected to the COM ports are properly set before enabling MODBUS.
- Set the MODBUS address referring to the inverter manual before enabling MODBUS. Make sure that the MODBUS addresses of all inverters are different.

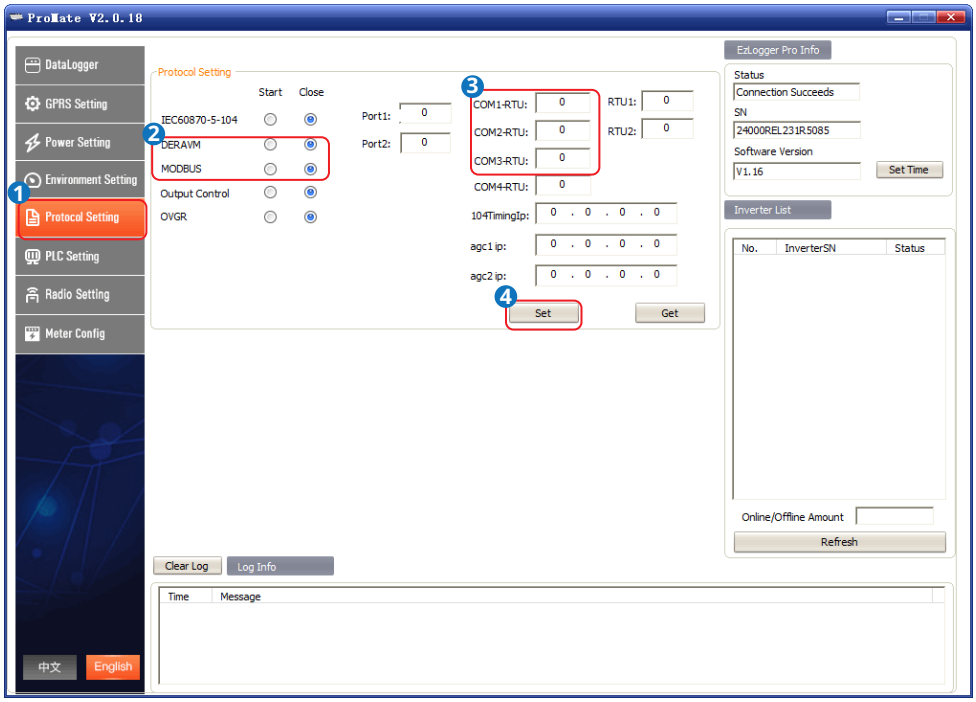


Parameter	Description
IEC60870-5-104	Enable or disable IEC60870-5-104.
Port 1	Set the local port address. Default value: 2404.
Port 2	
RTU1	Set the ASDU address. Default value: 1.
RTU2	

5.6.2 Setting DERAVM

NOTICE

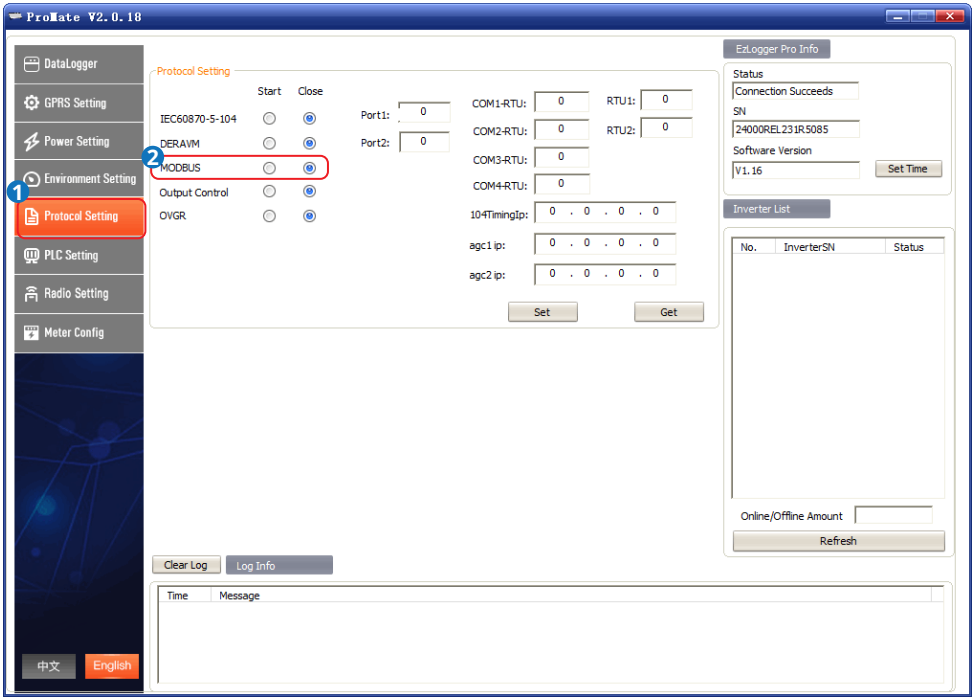
- The standards of Korea and other regions require that the inverters must provide a signal controlling port for DERAVM, which can be used for grid scheduling.
- To realize DERAVM, connect a third party KDN device to COM 4 of the EzLogger.
- Ensure that the current version of the connected inverter supports DERAVM before enabling DERAVM.
- Enable DERAVM and MODBUS at the same time, otherwise, the function cannot work properly.
- Make sure that the number of inverters connected to the COM ports are properly set before enabling MODBUS.
- Set the MODBUS address referring to the inverter manual before enabling MODBUS. Make sure that the MODBUS addresses of all inverters are different.



5.6.3 Setting MODBUS

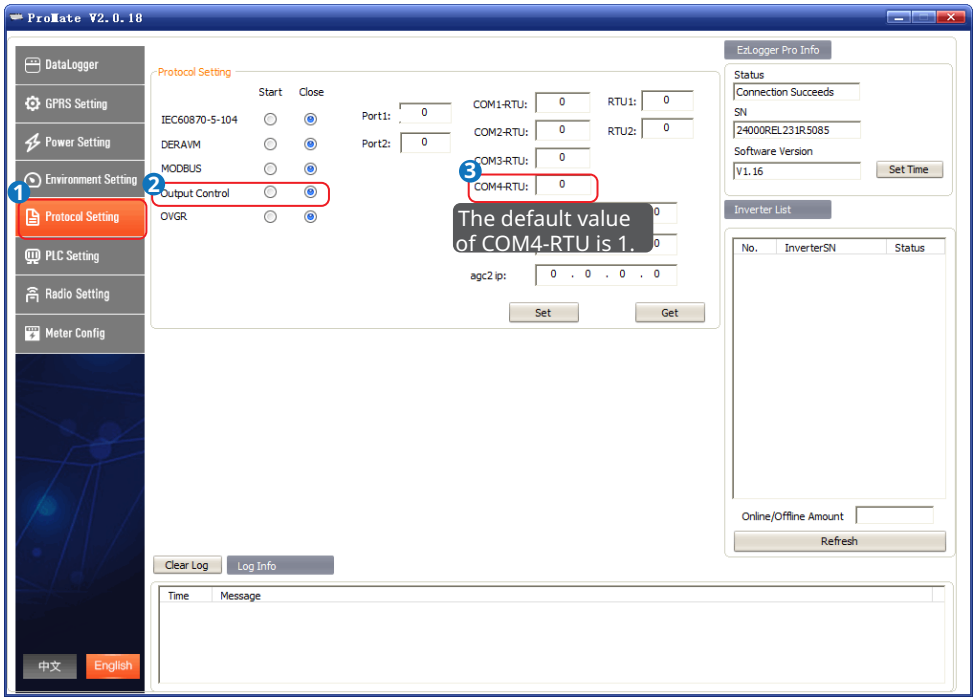
NOTICE

- Enable the communication between the EzLogger and the inverter.
- Make sure that the number of inverters connected to the COM ports are properly set before enabling MODBUS.
- Set the MODBUS address referring to the inverter manual before enabling MODBUS. Make sure that the MODBUS addresses of all inverters are different.



5.6.4 Setting the Output Control

According to the requirements of Japan and other regions, set output control parameters when the device needs to communicate with utility grid company to realize output control function.

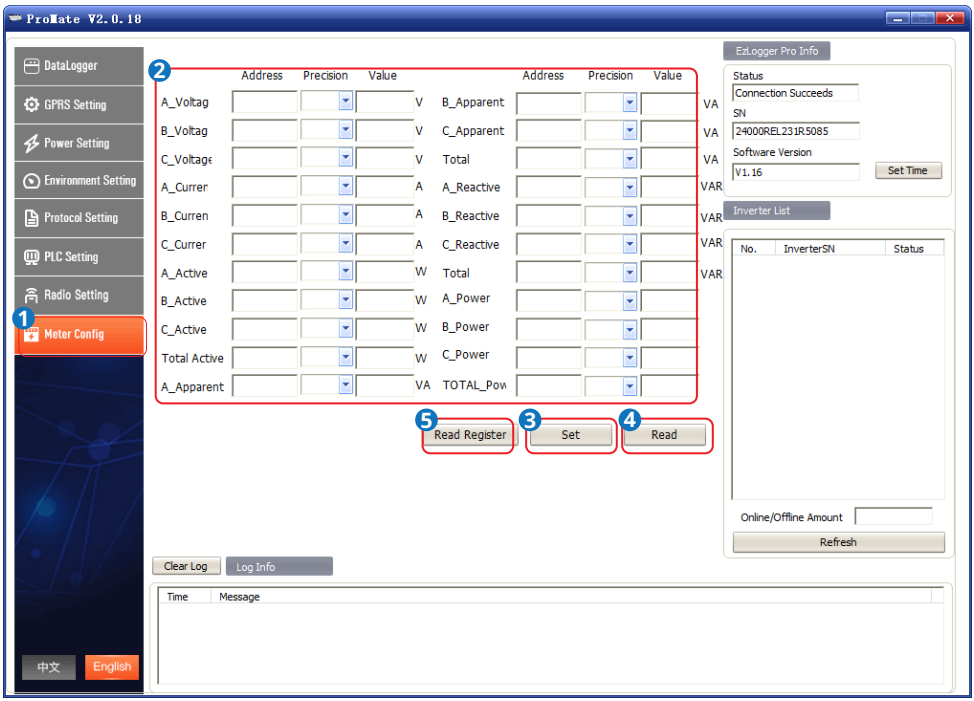


5.7 Setting Meter Parameters

NOTICE

- Configure the smart meter parameters when a third party smart meter is connected to the EzLogger Pro.
- When a third-party meter is connected, the meter data can only be collected and read.
- Connect the third party meter to the COM4 port of the EzLoggerPro, and set the modbus address of the meter to 1.
- Observe the COM4 indicator to check the meter communication status.

Step 1: Click tab **Meter Config** to set the parameters.
Step 2 Enter the **Address** and **Precision values based on actual situation of the meter, and click Set to complete the configuration,**
Step 3 Click **Read** to obtain the **Value** of voltage, current, etc..
step 4: (optional) When you log in again after exiting ProMate, click **Read Register** display the set parameters.



5.8 Upgrading

NOTICE
• Ensure that the EzLoggerPro is powered on during upgrading. The upgrade may fail if the EzLoggerPro is powered off. • Ensure that the name of the bin file used for the upgrade is EzLoggerPro_new.bin. Otherwise, the upgrade will fail.

Step 1 Obtain the upgrading package from after-sales service and prepare a FAT32 USB flash drive with 2.0 port.

Step 2 Put the upgrading package to the root directory of the USB flash drive.

Step 3 Insert the USB flash drive into the USB port of the EzLoggerPro. The fault indicator turns to steady on after the EzLoggerPro detects the update package and starts upgrading. If all indicators are not steady on, the upgrade is not started. Check the status of the upgrade package and USB flash drive.

Step 4 The indicators return to normal working mode after the upgrade is complete.

Chapter VI : Website Monitoring

Login the SEMS Portal at https://www.sems.com.cn/home/login to monitor and manage the inverters connected to the EzLoggerPro. Scan the QR Code below to get more information about SEMS Portal.

SEMS Portal User Manual

Chapter VII : Technical Specifications

Introduce the technical indicators of EzLogger Pro.

Model	Ezlogger Pro	
Communication Management		
Communication	Inverter Communication	3 x RS485
	Third-party equipment communication	1 x RS485
	Ethernet Communication	10/100M
Number of Managed Devices	RS485	60 (The number of devices connected to a single RS485 port shall not exceed 20)
Communication Distance	RS485 (m)	1000 (Shielded twisted pair wire shall be used)
	Ethernet (m)	100
General Parameters		
General Parameters	Power Adapter	Input: 100~240Vac, 50/60Hz;
	output: 12Vdc 1.5A;	
	Power Consumption (W)	General 3, Maximum 6
	Storage Capacity	16MB, expandable to 8GB through an optional SD card
	Dimensions (L * W * H mm)	190*118*37
	Weight (g)	500
	Operating Temperature Range (°C)	-20 ~ +60
	Relative Humidity	5% ~ 95% (non-condensing)
	Ingress Protection Rating	IP20
	Installation Methods	Wall mounting, table surface mounting, rail mounting
	User Interface	8 LED indicators

Chapter VIII ：Certification and Warranty

8.1 Certification Mark

8.2 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.

8.3 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).

8.4 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.

GoodWe Website

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