

SOP for iRelay 60&60-E Configurations



Preparations

➤ Supported OS

Computer with Windows System

➤ Installation package & Driver file

Save the [PMC-EasyConfig installation package & Device Driver](#) as captured in a local disk

 iRelay 60-E_ModbusV1.3_En_241014.ext

 PMC-EasyConfig-EN_V2.6.2_Setup_Release_2024101401

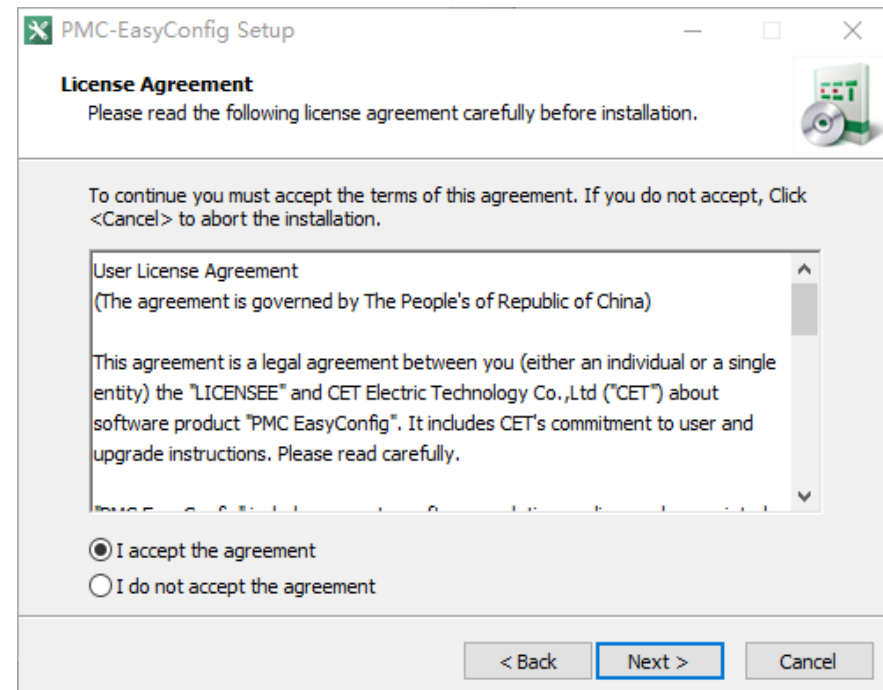
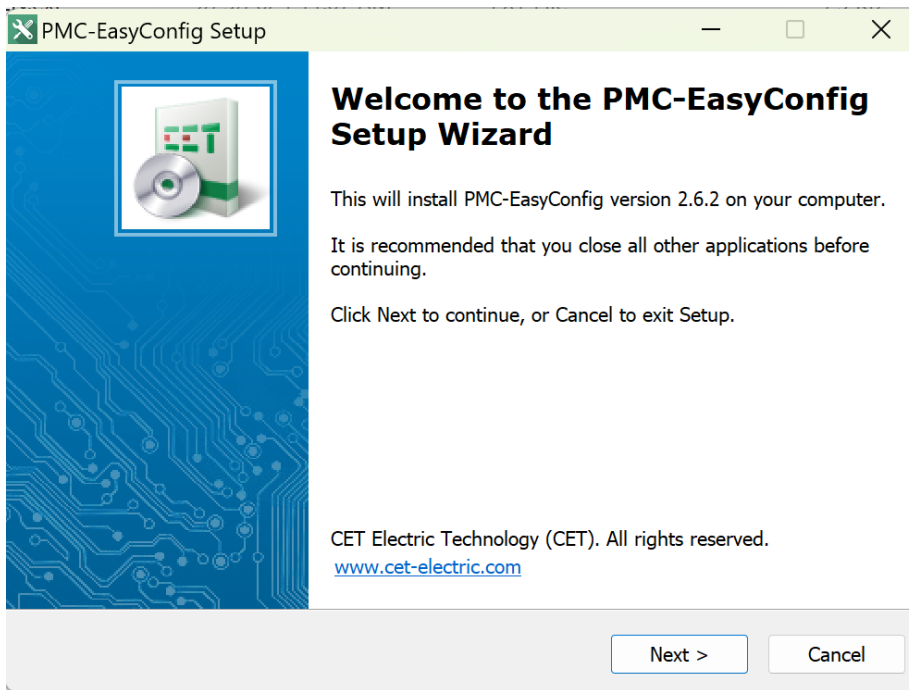
➤ Serial to USB line as below for connecting iRelay 60-E's RS-485 port to PC

➤ Ethernet cable for connecting iRelay 60 to PC



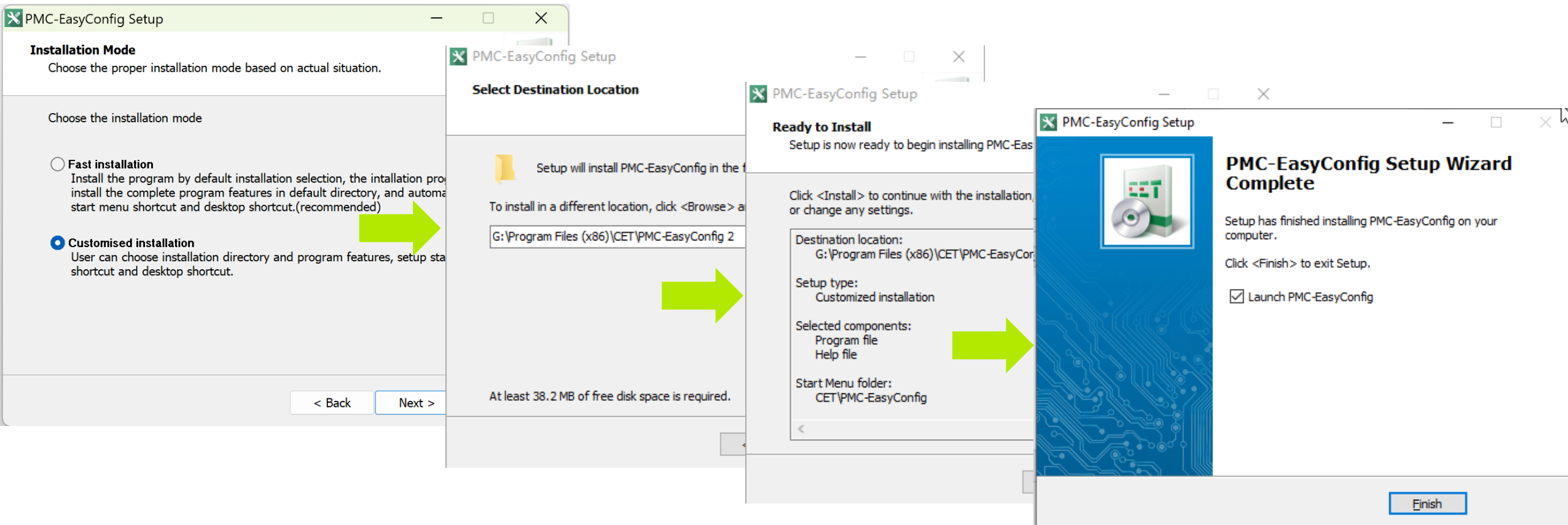
Install PMC-EasyConfig

1. Double click “PMC-EasyConfig-EN_V2.6.2_setup.exe” to install the software first.
2. Accept the agreement and click <Next> to continue.



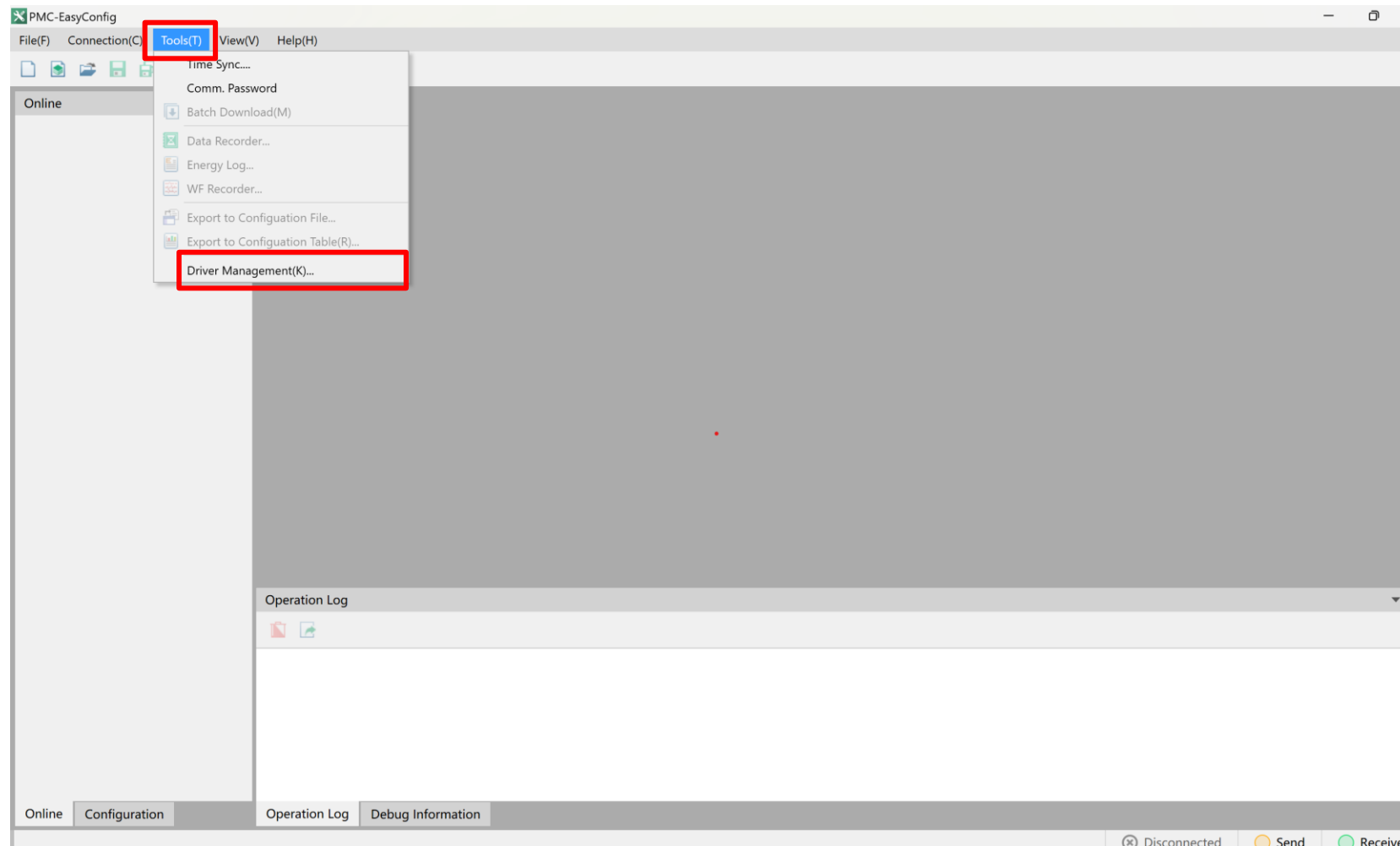
Install PMC-EasyConfig

3. Select installation mode and path. Click <Next> to continue.
4. Click <Install> to start the installation.
5. Click <Finish> to complete and then launch the software.



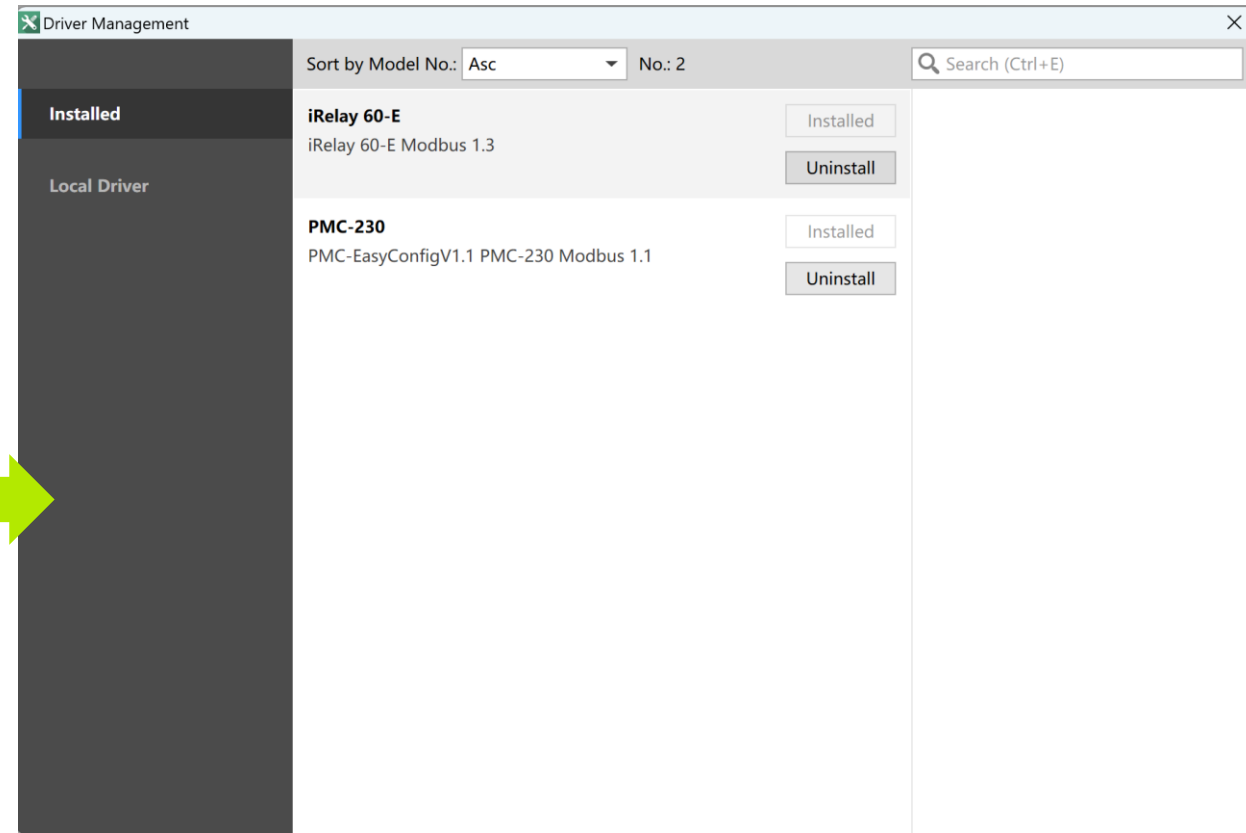
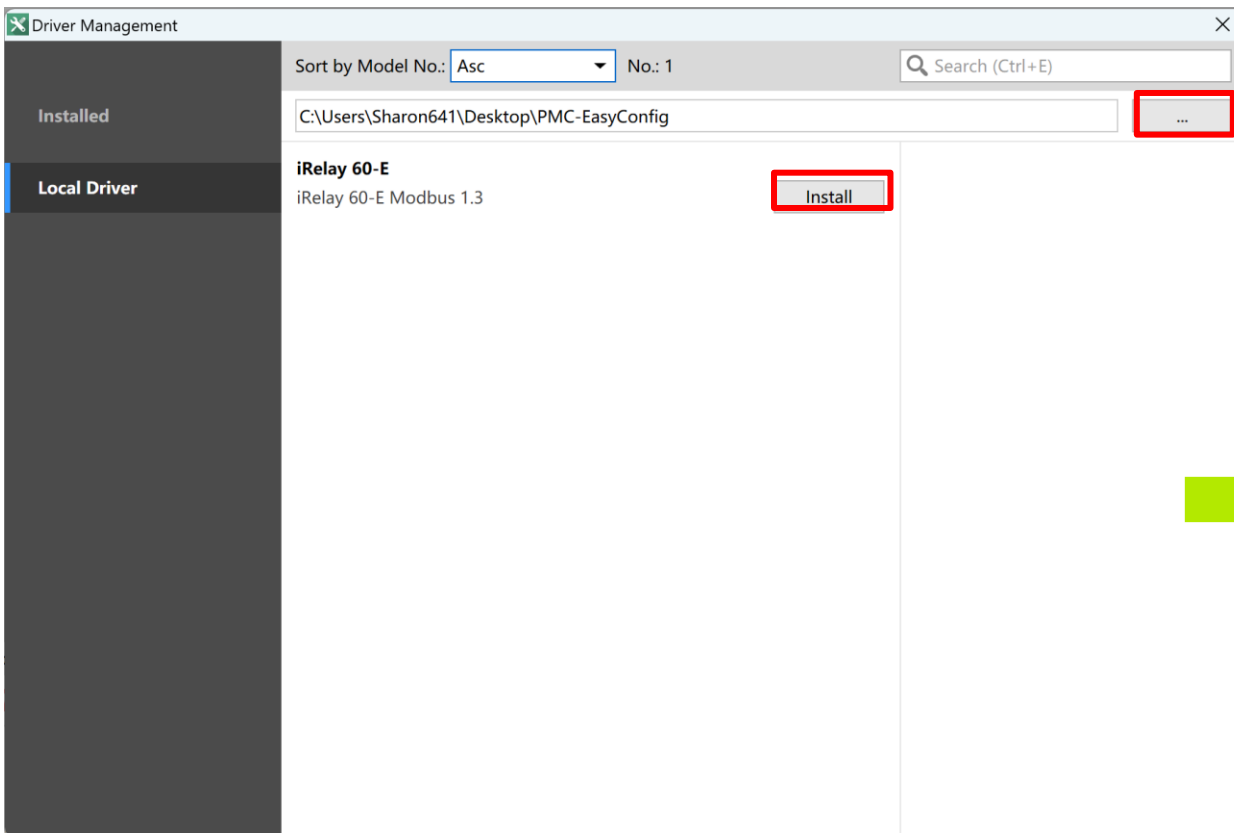
Install iRelay 60/60-E Driver

1. Prepare the .ext format driver file.  iRelay 60-E_ModbusV1.3_En_241014.ext
2. Click on Tools at the top menu and select Driver Management.



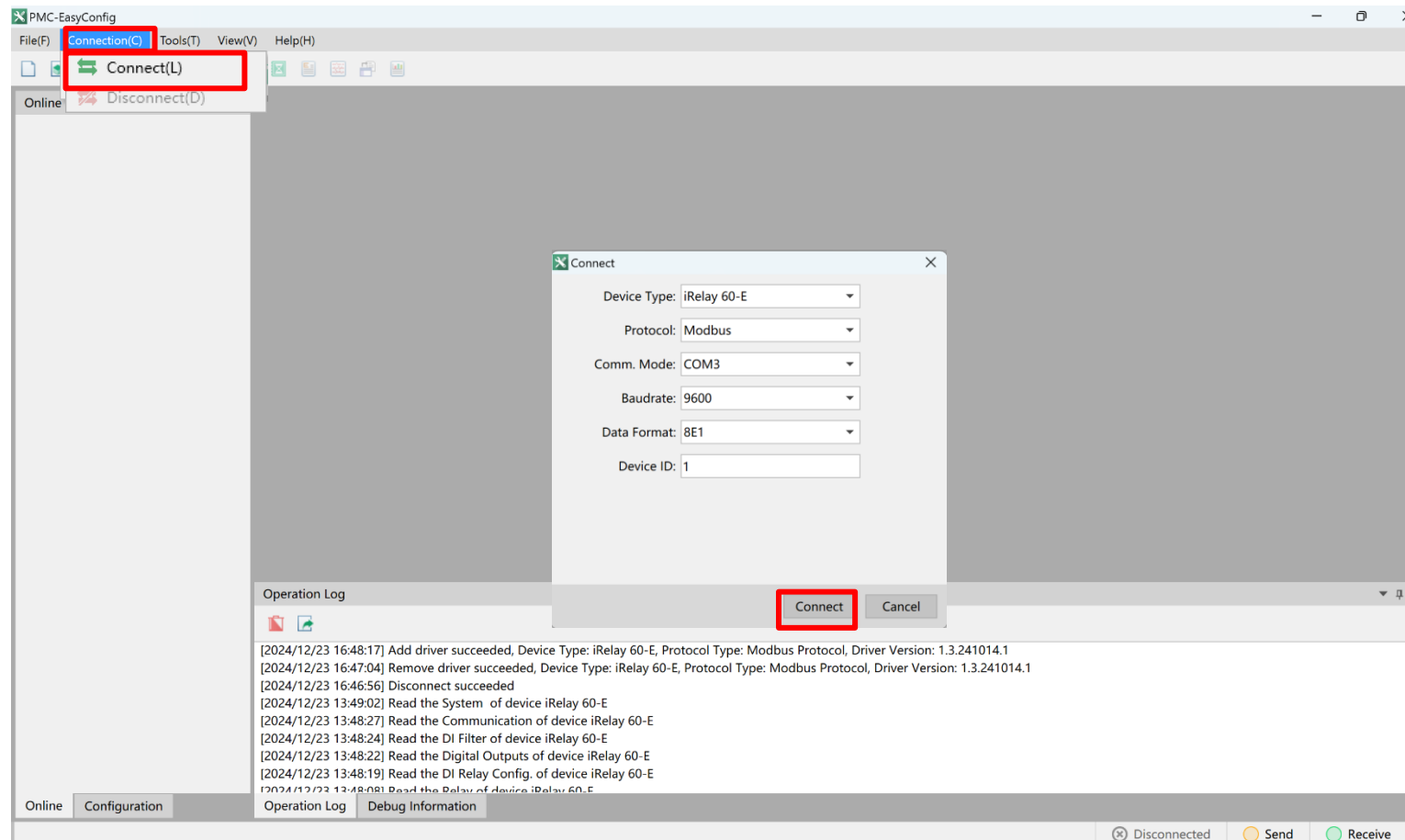
Install iRelay 60/60-E Driver

3. Click ... to select the path in local disk where the iRelay 60-E driver saved and then click Install.
4. Confirm the driver is installed successfully and close the Driver Management menu.



iRelay 60-E Configurations

1. Click **Connection** at the top menu. Click **Connect** and then select Device Type, Protocol, Comm. Mode, Baudrate, Data Format and enter the Device ID accordingly.
2. Click **Connect** to continue.



iRelay 60-E Configurations

3. Double click menu in the left pane to access pages of Setup parameters, real-time data or SOE Logs, etc. Select parameter for configuration in Settings column. Please remember to click **Write** icon as circled below after setup to save the changes to device.

The screenshot shows the iRelay 60-E - PMC-EasyConfig software interface. The left pane displays a tree view with the following structure:

- Online
 - iRelay 60-E
 - Setup
 - System** (selected)
 - Relay
 - DI Relay Config.
 - Digital Outputs
 - DI Filter
 - Communication
 - Meter
 - Status Data
 - Pri.Metering
 - Sec.Metering
 - Energy
 - SOE Logs
 - SOE
 - Remote Control
 - R-Close OUT
 - Control Command

The main area displays a table of parameters with the following columns: No., Parameters, Settings, and Range/Details.

No.	Parameters	Settings	Range/Details
1	Un Pri.	10.00kV	0.10~550.00kV
2	Un Sec.	100.00V	50.00~120.00V
3	UXn Pri.	10.00kV	0.10~550.00kV
4	UXn Sec.	100.00V	50.00~120.00V
5	CT Ratio	100	1~9999
6	IN Ratio	100	1~9999
7	IX Ratio	100	1~9999
8	Grounding	Unground	
9	Rated Freq	50Hz	
10	Volt. Mode	WYE	
11	DI Source	DC	
12	SBO	On	
13	Language	Chinese	
14	Start Events	Off	
15	Dropout Events	Off	
16	2S Manual	Off	
17	Block 79	Off	

Below the table is the Operation Log section, which displays a list of system events:

- [2024/12/23 16:55:14] Read the System of device iRelay 60-E
- [2024/12/23 16:55:02] Connect to device iRelay 60-E succeeded
- [2024/12/23 16:48:17] Add driver succeeded, Device Type: iRelay 60-E, Protocol Type: Modbus Protocol, Driver Version: 1.3.241014.1
- [2024/12/23 16:47:04] Remove driver succeeded, Device Type: iRelay 60-E, Protocol Type: Modbus Protocol, Driver Version: 1.3.241014.1
- [2024/12/23 16:46:56] Disconnect succeeded
- [2024/12/23 13:49:02] Read the System of device iRelay 60-E
- [2024/12/23 13:48:27] Read the Communication of device iRelay 60-E
- [2024/12/23 13:48:24] Read the DI Filter of device iRelay 60-E
- [2024/12/23 13:48:22] Read the Digital Outputs of device iRelay 60-E

The bottom status bar shows the following information:

- Device : iRelay 60-E
- Protocol Type: Modbus
- Protocol Version: V1.3
- Firmware Version: V1.01.05
- Connected
- Send
- Receive

Read Metering Data

Click on the Meter menu in the left pane. Double click on the Status Data, Pri. Metering, Sec. Metering, Energy menu to enter the corresponding page.

The screenshot displays the iRelay 60-E - PMC-EasyConfig software interface. The left pane shows the 'Online' tree with the 'Meter' menu highlighted. The main pane shows the 'Status Data' table with the following data:

No.	Parameters	Value
1	SOE Total	3811
2	WFR Total	1135
3	M RPT Total	39
4	DI Status	
5	DO Status	
6	Diagnosis Status1	
7	Relay Operate Status1	
	50/68	0
	SOTF	0
	SOTF AR	0
	67P-1	0
	67P-2	0
	67P-3	0
	50P-4	0
	51P	0
	67IN-1	0
	67IN-2	0
	67IN-3	0

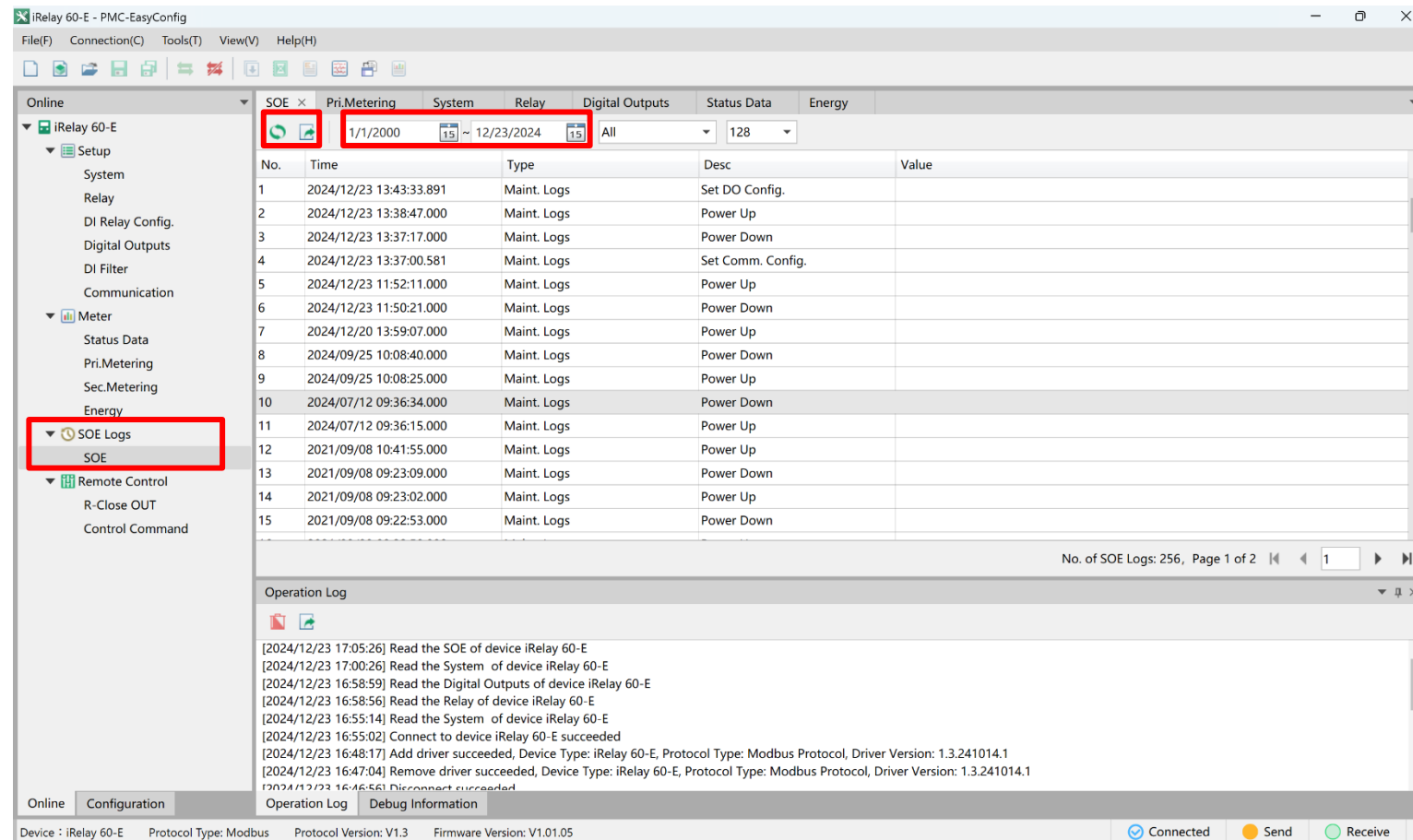
The bottom pane shows the 'Operation Log' with the following entries:

- [2024/12/23 17:00:26] Read the System of device iRelay 60-E
- [2024/12/23 16:58:59] Read the Digital Outputs of device iRelay 60-E
- [2024/12/23 16:58:56] Read the Relay of device iRelay 60-E
- [2024/12/23 16:55:14] Read the System of device iRelay 60-E
- [2024/12/23 16:55:02] Connect to device iRelay 60-E succeeded
- [2024/12/23 16:48:17] Add driver succeeded, Device Type: iRelay 60-E, Protocol Type: Modbus Protocol, Driver Version: 1.3.241014.1
- [2024/12/23 16:47:04] Remove driver succeeded, Device Type: iRelay 60-E, Protocol Type: Modbus Protocol, Driver Version: 1.3.241014.1
- [2024/12/23 16:46:56] Disconnect succeeded
- [2024/12/23 16:46:02] Read the System of device iRelay 60-E

The bottom status bar shows: Device : iRelay 60-E, Protocol Type: Modbus, Protocol Version: V1.3, Firmware Version: V1.01.05, Connected, Send, Receive.

Read and Export SOE Logs

Click on the SOE menu in the left pane. Select the duration for the SOE Logs. Click **Refresh** to read the SOE Logs on the software interface. Click **Export** to export all SOE logs in an excel file.



The screenshot displays the iRelay 60-E - PMC-EasyConfig software interface. The left pane shows the 'SOE Logs' menu item highlighted. The main pane shows the 'SOE' tab with a table of logs. The table has columns for No., Time, Type, Desc, and Value. The logs are sorted by time, showing events from 2021/09/08 to 2024/12/23. The bottom status bar indicates the device is connected and shows protocol and firmware versions.

No.	Time	Type	Desc	Value
1	2024/12/23 13:43:33.891	Maint. Logs	Set DO Config.	
2	2024/12/23 13:38:47.000	Maint. Logs	Power Up	
3	2024/12/23 13:37:17.000	Maint. Logs	Power Down	
4	2024/12/23 13:37:00.581	Maint. Logs	Set Comm. Config.	
5	2024/12/23 11:52:11.000	Maint. Logs	Power Up	
6	2024/12/23 11:50:21.000	Maint. Logs	Power Down	
7	2024/12/20 13:59:07.000	Maint. Logs	Power Up	
8	2024/09/25 10:08:40.000	Maint. Logs	Power Down	
9	2024/09/25 10:08:25.000	Maint. Logs	Power Up	
10	2024/07/12 09:36:34.000	Maint. Logs	Power Down	
11	2024/07/12 09:36:15.000	Maint. Logs	Power Up	
12	2021/09/08 10:41:55.000	Maint. Logs	Power Up	
13	2021/09/08 09:23:09.000	Maint. Logs	Power Down	
14	2021/09/08 09:23:02.000	Maint. Logs	Power Up	
15	2021/09/08 09:22:53.000	Maint. Logs	Power Down	

Operation Log

[2024/12/23 17:05:26] Read the SOE of device iRelay 60-E
[2024/12/23 17:00:26] Read the System of device iRelay 60-E
[2024/12/23 16:58:59] Read the Digital Outputs of device iRelay 60-E
[2024/12/23 16:58:56] Read the Relay of device iRelay 60-E
[2024/12/23 16:55:14] Read the System of device iRelay 60-E
[2024/12/23 16:55:02] Connect to device iRelay 60-E succeeded
[2024/12/23 16:48:17] Add driver succeeded, Device Type: iRelay 60-E, Protocol Type: Modbus Protocol, Driver Version: 1.3.241014.1
[2024/12/23 16:47:04] Remove driver succeeded, Device Type: iRelay 60-E, Protocol Type: Modbus Protocol, Driver Version: 1.3.241014.1
[2024/12/23 16:46:56] Disconnect succeeded

Device : iRelay 60-E Protocol Type: Modbus Protocol Version: V1.3 Firmware Version: V1.01.05

Thank you!

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