Inovance

# Inovance_Inovance AM600 Series

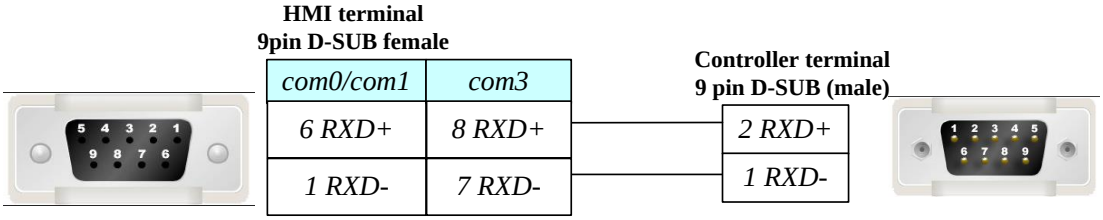
**Directory**

# ❖ 1 Introduction to Driver

| | |
|---|---|
| Drive Protocol | Inovance_Inovance AM600 Series |
| PLC Model | Inovance AM600 |
| Website | https://www.inovance.com |
| Means of communication | serial port |
| PLC interface | RS485 |
| Serial port parameters | Baud rate 115200, data bits 8, even parity, stop bit 1 |
| HMI Model | F1/F2/G2 full series |
| Online Simulation | Support |

Hardware wiring method:

**AM600 Series cable**




# ❖ 2 HMI Configuration

➢ Configuring communication connections

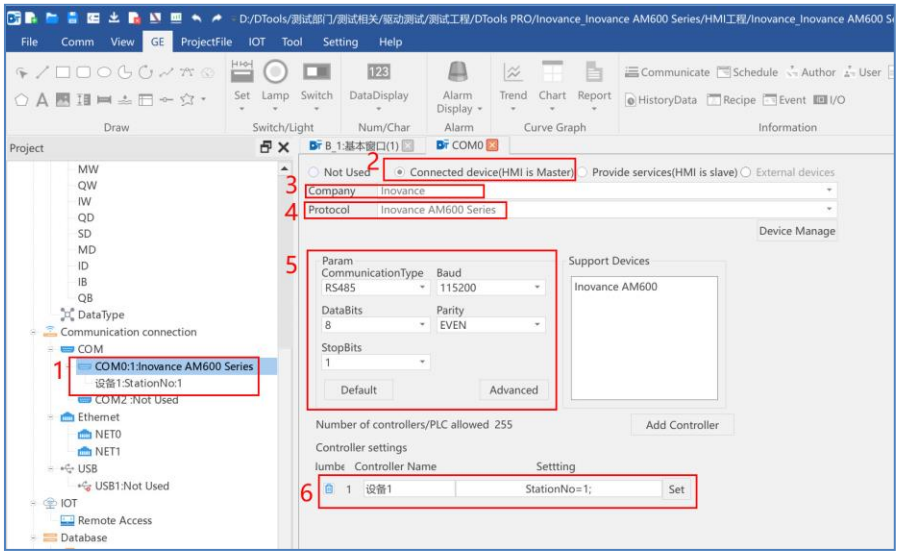



Figure1

(1) Project - communication connection - serial port, select the serial port to be configured

(2) Select "Connect device (HMI as master device)".

(3) Selection of external controller's company brand Inovance

(4) Selecting the Inovance AM600 Series Protocol

(5) Configuration parameters - just keep the same as the actual controller's parameters

(6) Configure the controller name and station number - just keep the same parameters with the actual controller

➢ Add variable

(7) Variables - External Variables Select the PLC where the variable is to be created.

(8) Click Add on the right side and create according to the desired data type.

(9) Information filtering view, can be filtered by each data screening above.

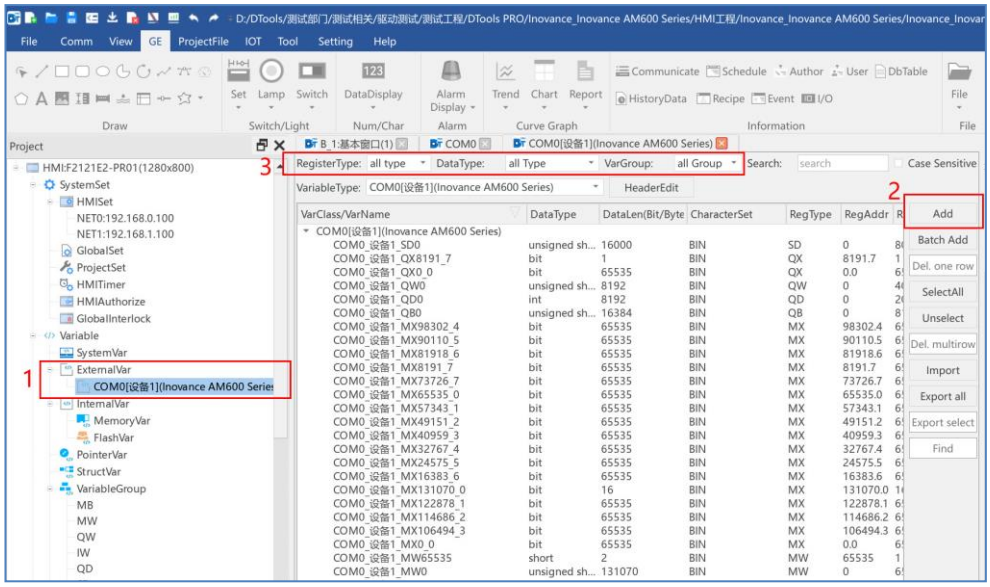



Figure2

# ❖ 3 External Controller Configuration

**The software used in this manual is InoProShop.**

1. Open InoProShop software, create a new project and select the corresponding equipment:

2. Click "Device"--->"Communication Settings" in the list on the right, select the corresponding gateway (you can add the gateway and set the IP of the corresponding PLC through the "Scan Network..." button next to the "Gateway" button). (you can add a gateway and set the IP of the corresponding PLC through the "Gateway" button next to "Scan Network..."), after the interface indicator shows green, click "Scan Network..." on the upper side, select the corresponding network path, click "Scan Network..." on the upper side. After the interface indicator shows green, click "Scan Network..." on the upper side, select the corresponding network path, and click OK for successful communication:

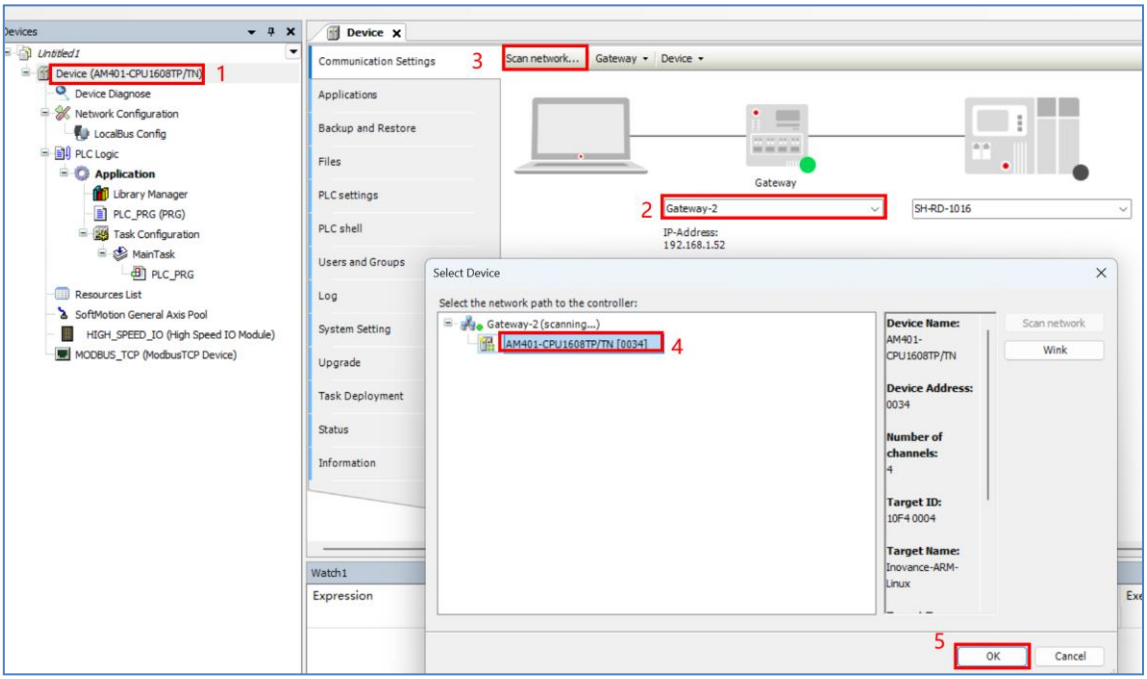



Figure3

3. Double click "Network Configuration" on the left side, click PLC in the window, tick Modbus Slave, and MODBUS_COM0 (Modbus Local Slave) window will appear on the left side.

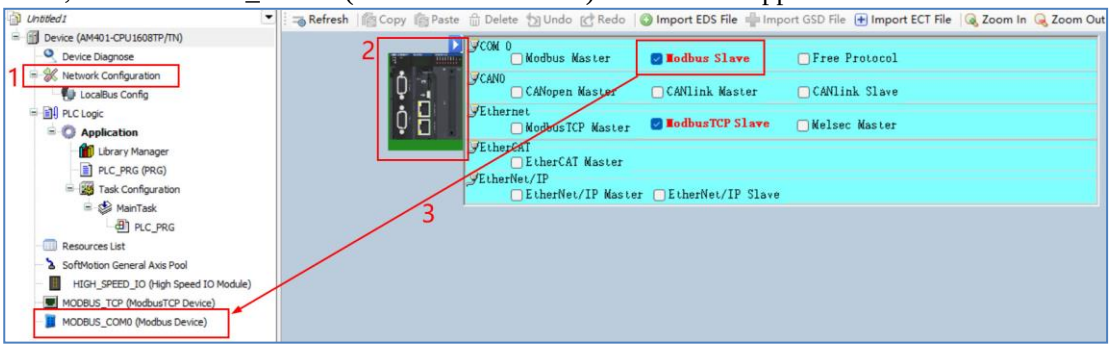



Figure4

4. Double-click MODBUS_COM0 (Modbus local slave) window to set the corresponding communication parameters (need to be consistent with the parameters set by HMI).

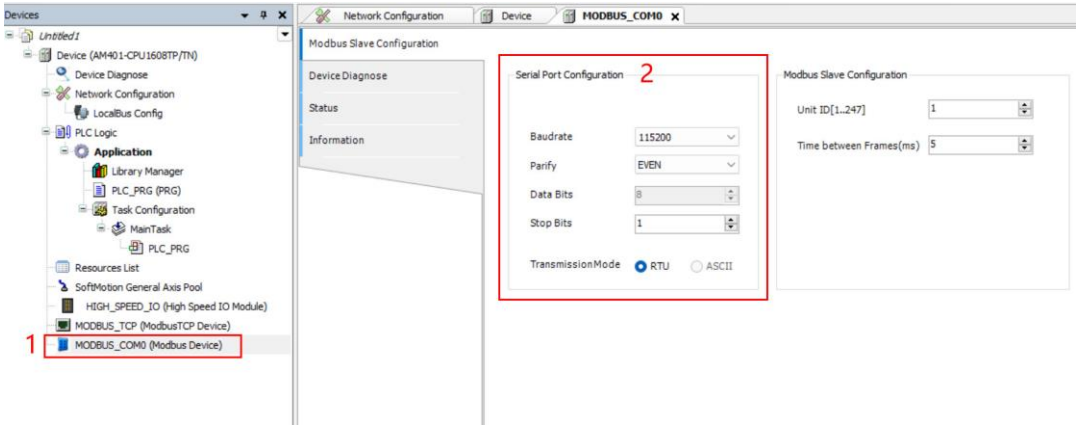



Figure5

5. Click "Online"---->"Login to", after logging into PLC, then click "View"---->"Monitor". "You can monitor the registers of PLC (to monitor the registers, input "%+register name and address" at the expression of monitoring table, such as "%MB0", enter to monitor the corresponding registers).

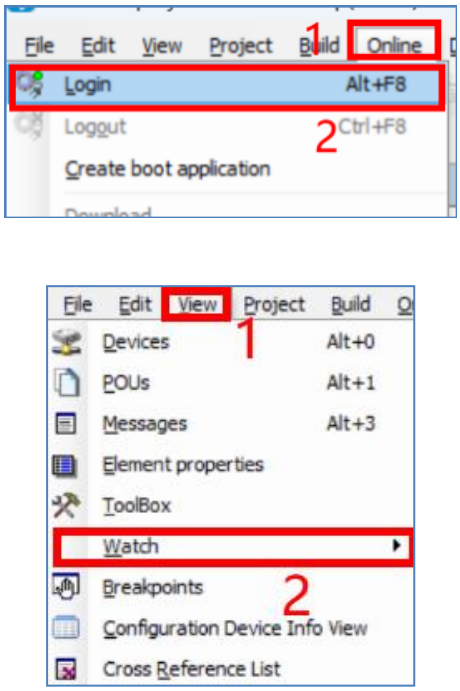



Figure6

## ❖ 4 Supported Register Types

| Device | Bit Address | Word Address | Format | Notes |
|---|---|---|---|---|
| Internal auxiliary nodes | MX 0-131071.7 | ---- | DDDDDD.D | |
| External Input Nodes | IX 0-8191.7 | ---- | DDDD.D | |
| External Output Node | QX 0-8191.7 | ---- | DDDD.D | |
| Special Data Registers | ---- | SD 0-7999 | DDDD | |
| Internal Auxiliary Registers | ---- | MB 0-131071 | DDDDDD | |
| Internal Auxiliary Registers | ---- | MW 0-65535 | DDDDD | |
| Internal Auxiliary Registers | ---- | MD 0-32767 | DDDDD | 32-bit |
| Output Registers | ---- | QB 0-8191 | DDDD | |
| Output Registers | ---- | QW 0-4095 | DDDD | |
| Output Registers | ---- | QD 0-2047 | DDDD | 32-bit |
| Input Registers | ---- | IB 0-8191 | DDDD | |
| Input Registers | ---- | IW 0-4095 | DDDD | |
| Input Registers | ---- | ID 0-2047 | DDDD | 32-bit |

# ❖ 5 Advanced parameters and error messages

**Reference Manual - Communication "Advanced Parameters" and "Error Messages Table"**

# ❖ 6 Software Configuration

The following steps are based on the example of associated word variables:

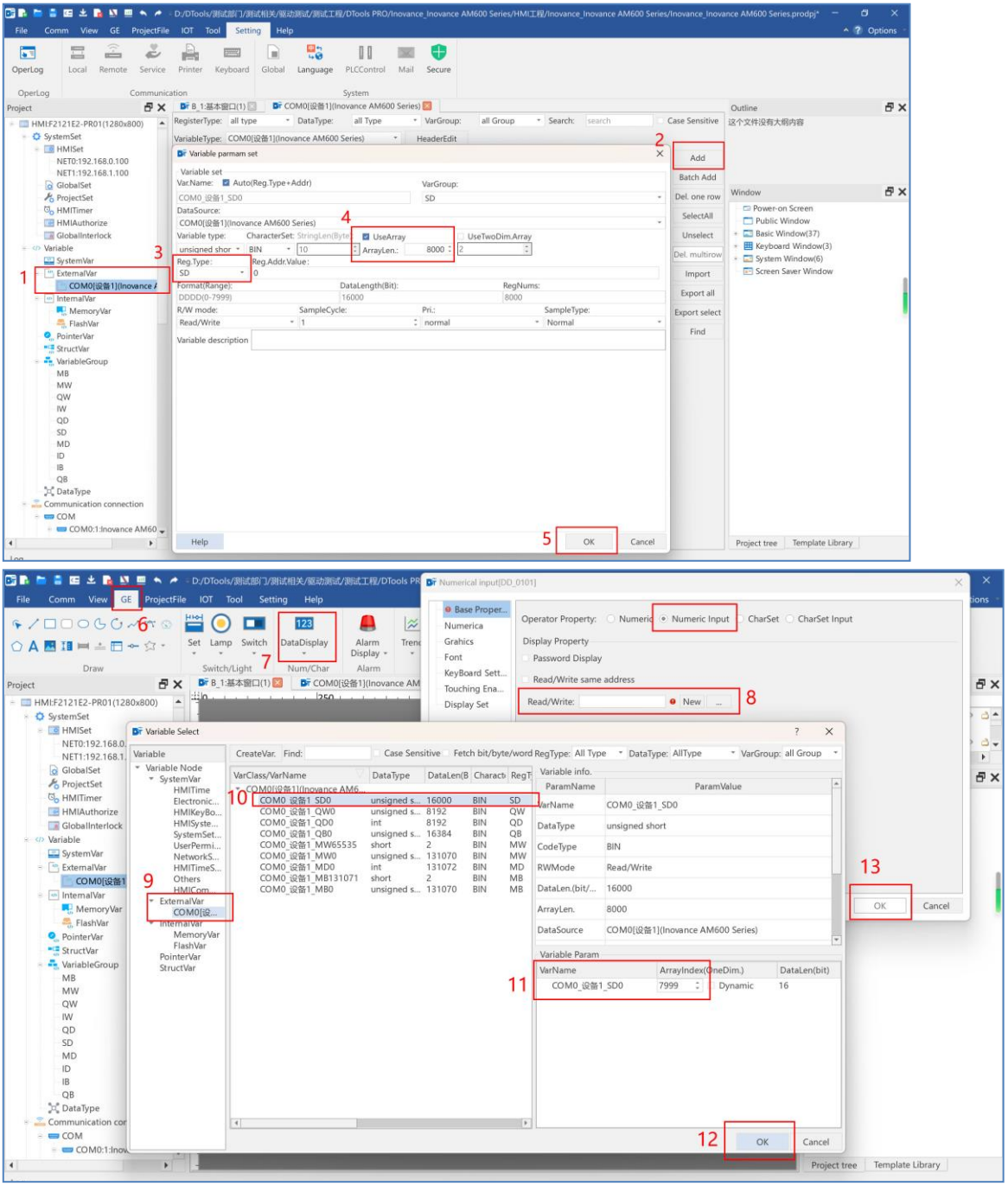



Figure7

1. Click "External Variables" and select the variable that corresponds to Inovance AM600 Series;
2. Click "Add" to bring up the Create New Variable window;

3. Select the word variable in the register type;
4. Tick "Array" and select the length of the array;
5. Click "OK" to complete the creation of variables;
6. Click on "Components";
7. Select the numeric entry in the "Numeric Display" element;
8. Binding variables can be entered directly into the register or through the "..." (You can also create a new variable here, same steps as 2~5);
9. If you select a variable via the Variable Selection pop-up window, click on the external variable and select the corresponding driver;
10. Select the register to be bound;
11. Select the array subscript;
12. Click "OK" to complete the variable selection operation;
13. Click "OK" to complete the operation of the numerical components associated with the word variable;