

## PSO2020 如何添加 Modbus 串行设备

### 问题描述:

如何添加 Modbus 串行设备

### 解决方案:

步骤如下:

1. Studio – Topology – I/O Device – Express Wizard, 选择相应的 Modbus 协议



2. 设置设备地址

**Device Communications Wizard**

 You need to provide an address for your I/O Device. Press the Driver Address Help button for help on the address of the driver you have selected.

**Driver Address Help**

Enter an address below or accept the default.

Address:

Selected driver

Manufacturer: Industry Standard Protocols

Model: Modbus/RTU

Communications: 1 - Start Register, Bits In Register: 0-15

< 上一步(B)   **下一步(N) >**   取消   帮助

3. 下一步

**Device Communications Wizard**

 Select this option if you will be connecting this I/O Device to a Public Switched Telephone Network (PSTN).

☐ **Connect I/O Device to PSTN**

**Connection schedule**

☒ HH:MM:SS   Synchronize at:

☐ Day   Repeat every:

☐ Week

☐ Month

☐ On Startup

Phone number to dial:

< 上一步(B)   **下一步(N) >**   取消   帮助

#### 4. 选择串口



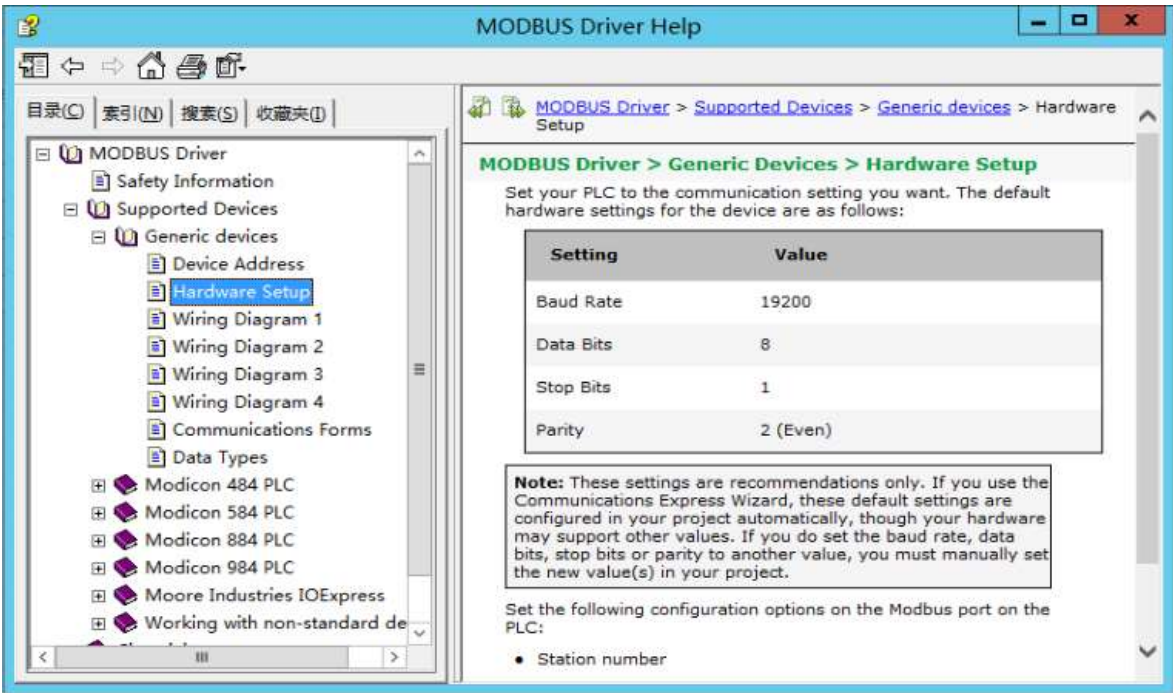
#### 5. 下一步



6. 完成



7. 参考驱动帮助文档设置参数



## Parameters

### [MODBUS]InitType

The type of variable the MODBUS protocol tries to read on startup, to allow communication to start.

**Allowable Values:** 1 to 4, or 20 (for extended registers access).

InitType	Address	Variable
1	00001 - 00017	Output status
2	10001 - 10017	Input status
3	40001	Output registers
4	30001	Input registers
20		General reference

**Default Value:** 2

If setting this parameter to 20 for extended register access, you will need to adjust the [FileNumber](#) parameter to identify the extended memory file number.

With this parameter, you can set different values for specific I/O devices or groups of I/O devices. See [Device/group-specific parameters](#).

### [MODBUS]InitUnitAddress

The MODBUS driver reads the citect.ini file to determine the correct unit address for initialization of a PLC. InitUnitAddress is the parameter used to set the unit address.

**Allowable Values:** 0 to 65535

**Default Value:** 0

With this parameter, you can set different values for specific I/O devices or groups of I/O devices. See [Device/group-specific parameters](#).

### [MODBUS]InitType

### [MODBUS]InitUnitAddress

```

[MODBUS]
InitType = 3
InitUnitAddress = 401109
  
```

Power SCADA Studio - PSOAR [Active Project]

Topology Computers Edit Computer Profiles I/O Devices Components & Mapping

Save Discard Copy Paste Delete Row(s) Export All Import All Export Tags Import Tags Refresh Tags Express Wizard Driver Reference Help

Row	Server Name	Name	Number	Address	Protocol	Port Name	Startup Mode	Priority	Memory
1	IOServer1	zOL	1		IEC61850N		Primary	1	TRUE
2	IOServer1	NetworkTagsDev	2		IEC61850N		Primary	1	TRUE
3	IOServer1	PM8000	124	-I 10.177.121.228 -P 7700	ION	P1_BOARD1_PRJ4	Primary	1	
4	IOServer1	Simulator	125		IEC61850N				TRUE
5	IOServer1	IONo11	134	-I 127.0.0.1 -P 7700	ION	P1_BOARD1_PRJ4	Primary	1	
6	IOServer1	ION9000	135	-I 10.177.121.228 -P 7700	ION	P1_BOARD1_PRJ4	Primary	1	
7	IOServer1	ION7650	136	-I 10.177.121.229 -P 7700	ION	P1_BOARD1_PRJ4	Primary	1	
8	IOServer1	IODevSerial	137	1	MODBUS2	PORT1_BOARD2			

Power SCADA Studio - PSOAR [Active Project]

Topology Computers Edit Computer Profiles I/O Devices Components & Mapping

Save Discard Copy Paste Delete Row(s) Export All Import All

Ports

Row	Server Name	Port Name	Port Number	Board Name	Baud Rate	Data Bits	Stop Bits	Parity	Special Opt	Comment	Project
1	IOServer1	P1_BOARD1_PRJ4	1	BOARD1							PSOAR
2	IOServer1	PORT1_BOARD2	1	BOARD2	9600	8	1	EVEN_P			PSOAR

## 8. 根据实际情况添加变量

Power SCADA Studio - PSOAR [Active Project]

System Model Equipment Variables Alarms Trends Accumulators SPC

Save Discard Copy Paste Delete Row(s) Export All Import All Refresh All Tags

Variables

Row	Equipment	Item Name	Tag Name	Cluster Name	I/O Device	Data Type	Address	Comment	Eng Zero Scale	Eng Full Scale	Project
3511	PM5350		PM5350/OC_QVVR1/DipStratValIdchg	c1	PM5350	DIGITAL	T.ALMM.38743.S3032	@(Under Voltage C-N)			PSOAR
3512	PM5350		PM5350/OLL_QVVR1/DipStratValIdchg	c1	PM5350	DIGITAL	T.ALMM.38741	@(Under Voltage L-L)			PSOAR
3513	PM5350		PM5350/OLL_QVVR1/DipStratValIdchg	c1	PM5350	DIGITAL	T.ALMM.38743	@(Under Voltage L-N)			PSOAR
3514	PM5350		PM5350/TotL_QVVR1/DipStratValIdchg	c1	PM5350	DIGITAL	T.ALMM.38780	@(Voltage Loss)			PSOAR
3515	PM5350		PM5350/V_PDF11/OpIdchg	c1	PM5350	DIGITAL	T.ALMM.38778	@(Voltage Unbalance Protection)			PSOAR
3516	IODevSerial		IODevSerial/MMXU1/PhV/gshaA	c1	IODevSerial	REAL	403028	@(Voltage A-N)			PSOAR
3517	IODevSerial		IODevSerial/MMXU1/PPV/gshaB	c1	IODevSerial	REAL	403022	@(Voltage B-C)			PSOAR
3518	IODevSerial		IODevSerial/MMXU1/PhV/gshaB	c1	IODevSerial	REAL	403030	@(Voltage B-N)			PSOAR
3519	IODevSerial		IODevSerial/MMXU1/PPV/gshaCA	c1	IODevSerial	REAL	403024	@(Voltage C-A)			PSOAR
3520	IODevSerial		IODevSerial/MMXU1/PhV/gshaC	c1	IODevSerial	REAL	403032	@(Voltage C-N)			PSOAR
3521	PM5350		IODevSerial/LPHD1/EEHealth	c1	NetworkTagsDev	INT	IODevSerial/LPHD1/EEHealth	@(External Equipment Health)			PSOAR