M 100

	M		M100 M200 M300 M500 M500S		
					-
	-				2025-08-4

M Sysctrl Studio 2.4

M100 M200 M300 M500 M500S

HCMXB-CAN-BD HCMXB-RTC-BD HCMXB-2RS232-BD HCMXB-2RS485-BD

M

2025-8-4	V1.0		

.....1

1. 100 1

2. RS485 ?.....1

3. ASCII RTU 1

4. E610 CAN 603F 2

5. RS485 2

6. 2

7. TCP 502 5020 3

8. Modbus TCP 3

9. Socket 4

10. 485 5

11. E600 485 6

12. 6

13. ModbusTCP M 6

14. 6

.....7

1. 7

2. 7

3. 7

4. 8

5. Q 8

6. M511S M511 2104 8
7. IP 8
8. 9
9. Time to DINT 9
10. 16#2103 9
11. 9
12. M514 10
13. 4-20ma 200 200 10
14. INT 10
15. TIME 11
16. 11
17. ID 12
18. M RTC 12
19. RTC 16690 12
20. 12
21. 13
22. 13
23. 13
24. IF 14
25. IF THEN END_IF 14
..... 16
1. MC_Setposition 16

2. 6064 PLC 16

3. M511S M511 16

4. 17

5. 200 50-80 17

6. MC_HomeByPLCIO 17

7. 17

8. 17

9. MC Stop MC_MoveContinuousVelocity 5377 18

10. MC_HomeByPLCIO 20 4105 18

11. 4612 18

12. XY 20 4618 18

13. MC_HomeByPLCIO homing 19

14. 19

15. M512 op 19

16. DI 19

17. 20

18. 4123 096 20

19. MC_GearIn InGear Eexcute ... 20

20. 16#2151 20

21. 20

22. 20

23. M511S M511 4116 20

.....26

1. ——RUN 26

2. —— 26

3. —— 26

4. —— 26

5. M : 26

6. M512 26

7. “ ” 26

8. 26

9. 16#2111 26

10. RUN PLC STOP 26

1. 100

104 WORD PLC 100WORD /

100word

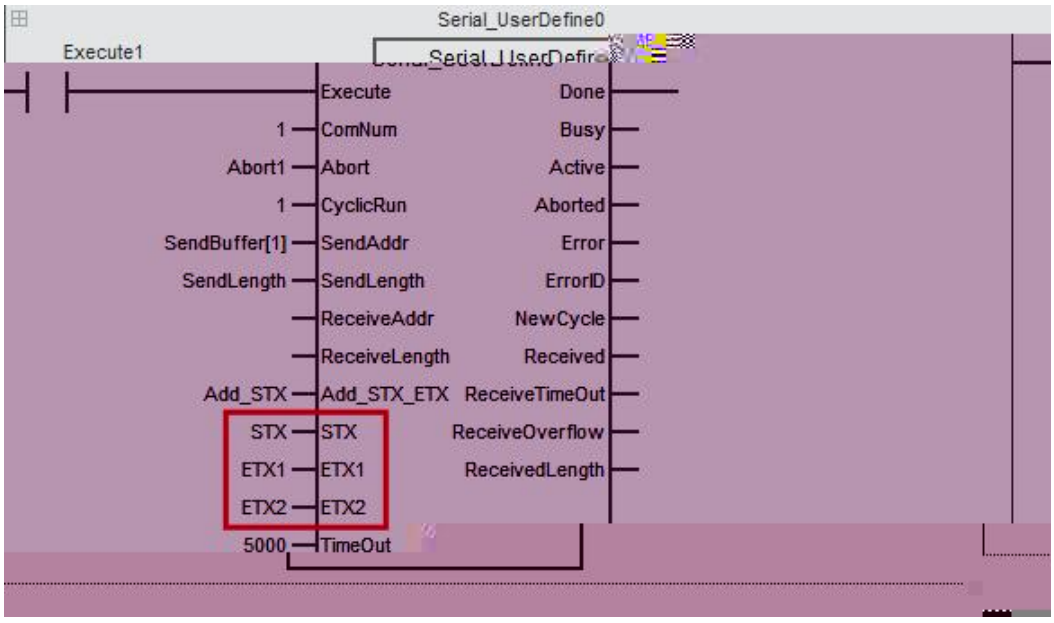
2. RS485 ?

ModbusRTU

06 10 10

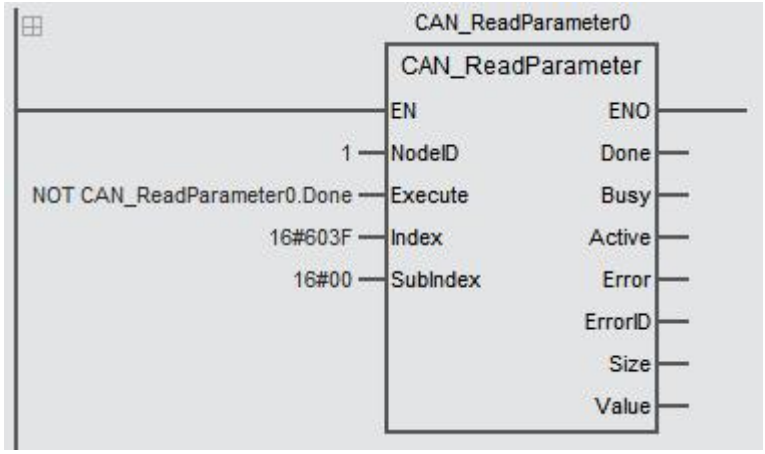
3. ASCII RTU

RTU ASCII M _



4. E610 CAN 603F

603F 00

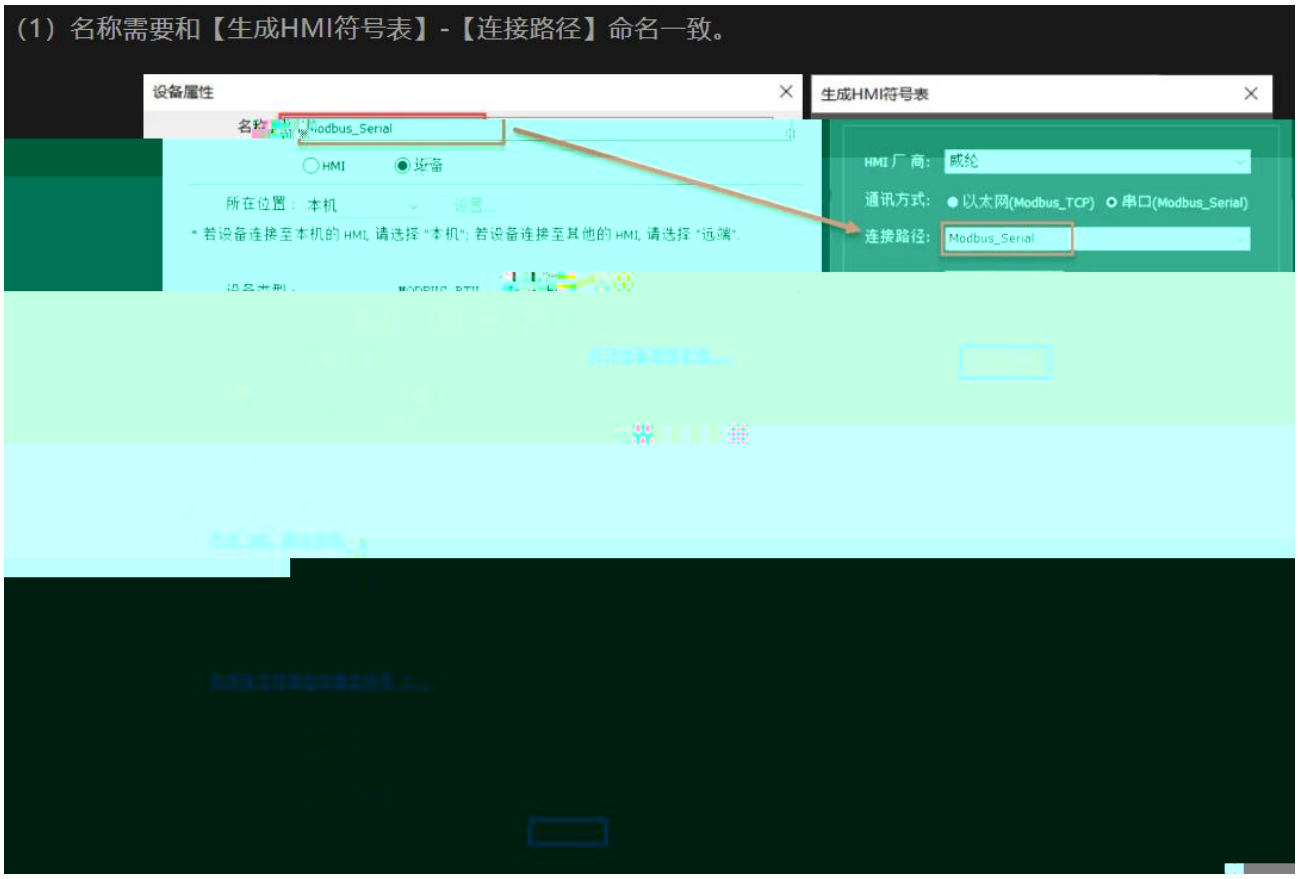


5. RS485

通道	启用	超时时间(ms)	触发方式	执行方式	读写类型	功能码	主站地址	..	从站地址	数量
1	☑	1000	默认触发	循环	读寄存器	默认	%MW1000	⇦	16#0001	1
2	☑	1000	默认触发	循环	写寄存器	默认	%MW1000	⇨	16#0002	1

6.

M HMI



7. TCP 502 5020

socket 5020 TCP

8. Modbus TCP

TCP 6 ASCII ACK 0 ASCII

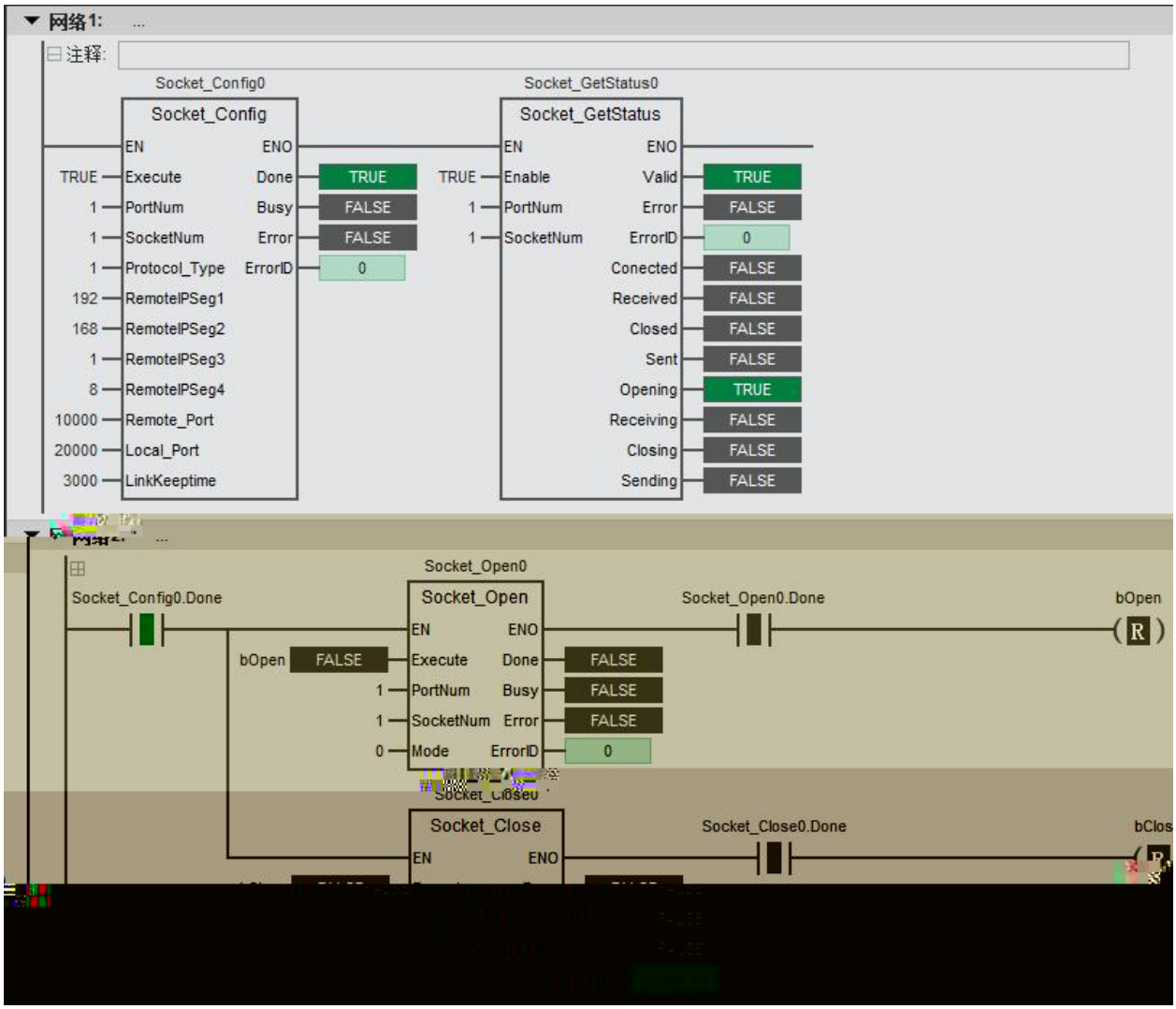
0 ASCII 0

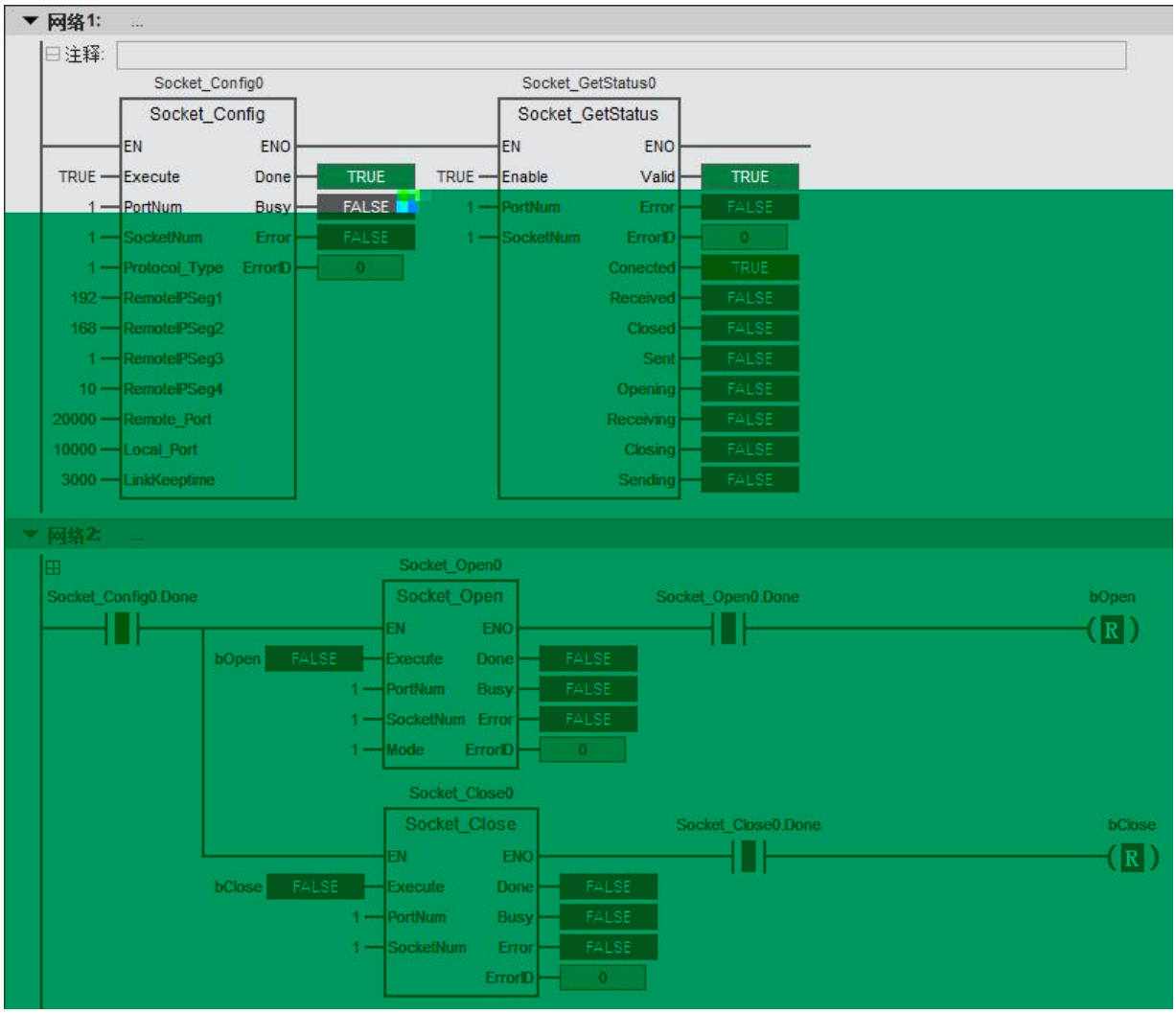
9. Socket

Socket_GetStatus Opening

Opening Socket_Open Socket Opening

Socket_Open Socket_Close Socket_Open Opening

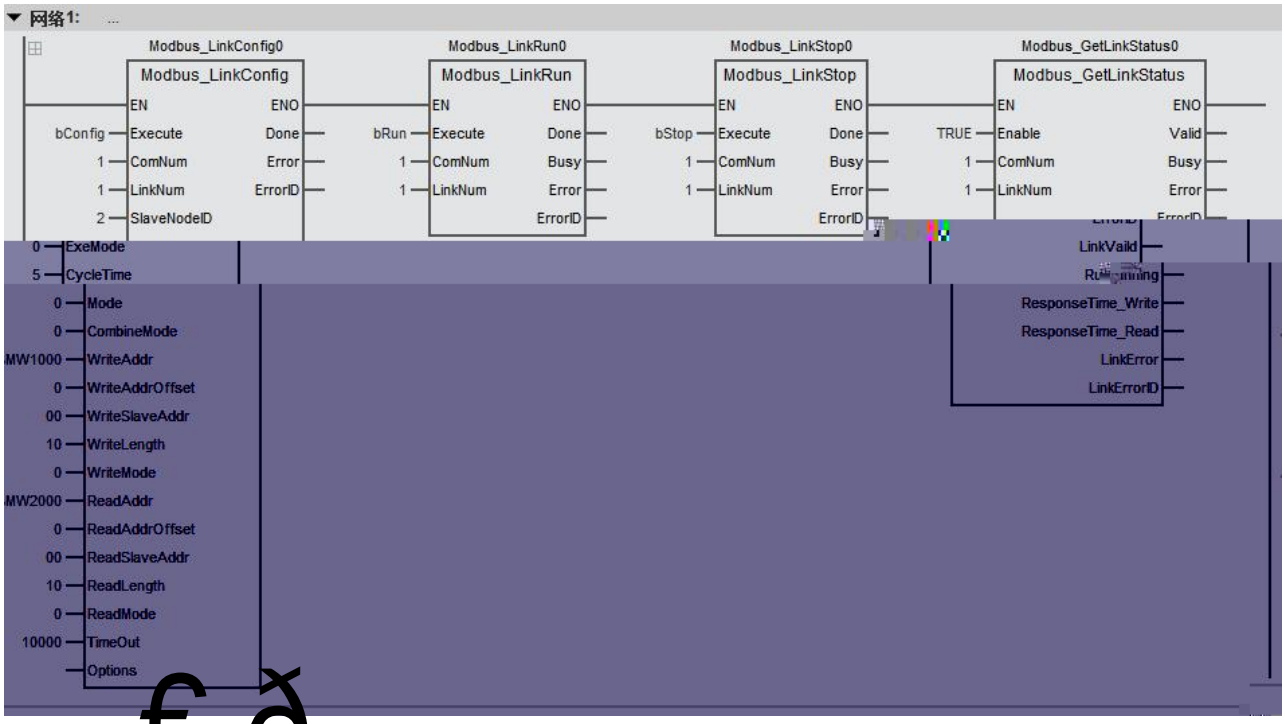




10. 485

LINKCONFIG

1-Modbus_LinkConfig 2-Modbus_LinkRun 3-Modbus_GetLinkStatus 4- 5-Modbus_LinkStop


网络1:
Modbus_LinkConfig0
Modbus_LinkConfig
EN
ENO
bConfig
Execute
Done
1
ComNum
Error
1
LinkNum
ErrorID
2
SlaveNodeID
0
ExeMode
5
CycleTime
0
Mode
0
CombineMode
MW1000
WriteAddr
0
WriteAddrOffset
00
WriteSlaveAddr
10
WriteLength
0
WriteMode
MW2000
ReadAddr
0
ReadAddrOffset
00
ReadSlaveAddr
10
ReadLength
0
ReadMode
10000
TimeOut
Options
Modbus_LinkRun0
Modbus_LinkRun
bRun
Modbus_LinkStop0
Modbus_LinkStop
bStop
Modbus_GetLinkStatus0
Modbus_GetLinkStatus
TRUE
Enable
Valid
Busy
LinkVaild
ResponseTime_Write
ResponseTime_Read
LinkError
LinkErrorID

11. E600 € ð

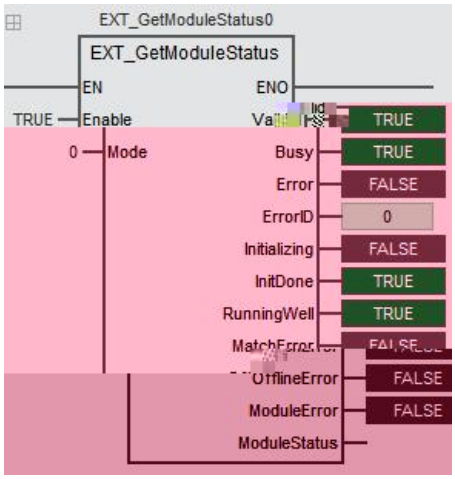
1.

2.

“；” “．”

3.

EXT_GetModuleStatus



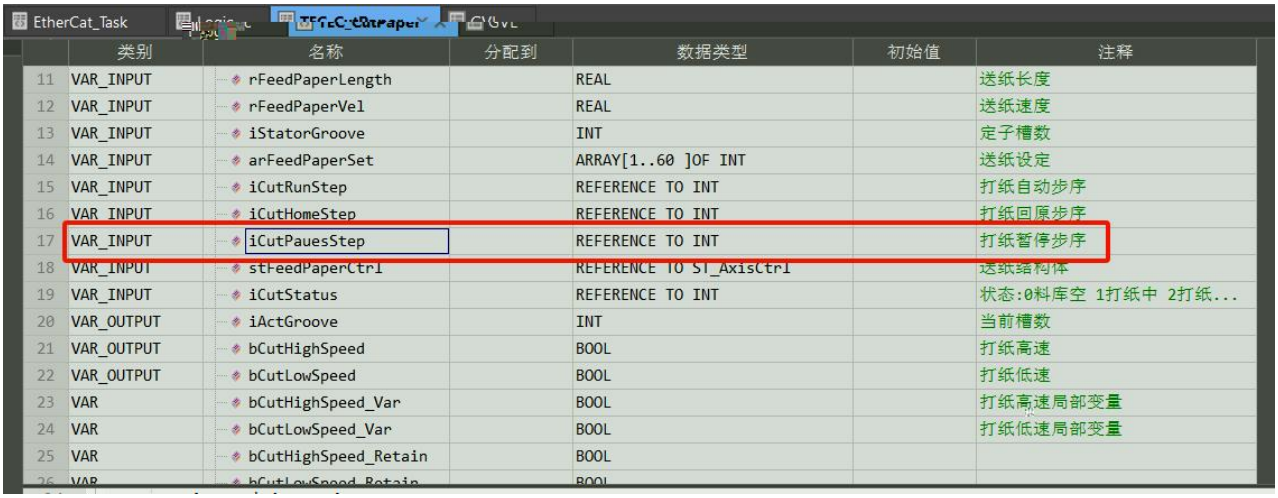
4.

PG .

5. Q

6. M511S M511 2104

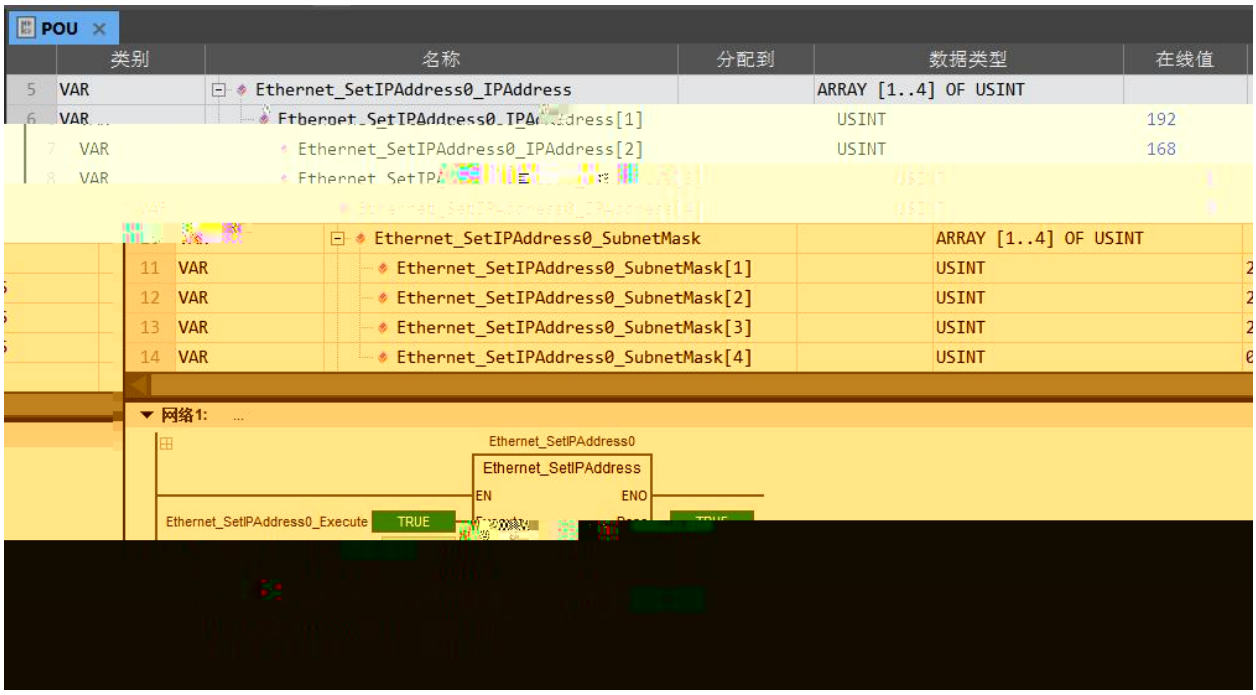
CPU



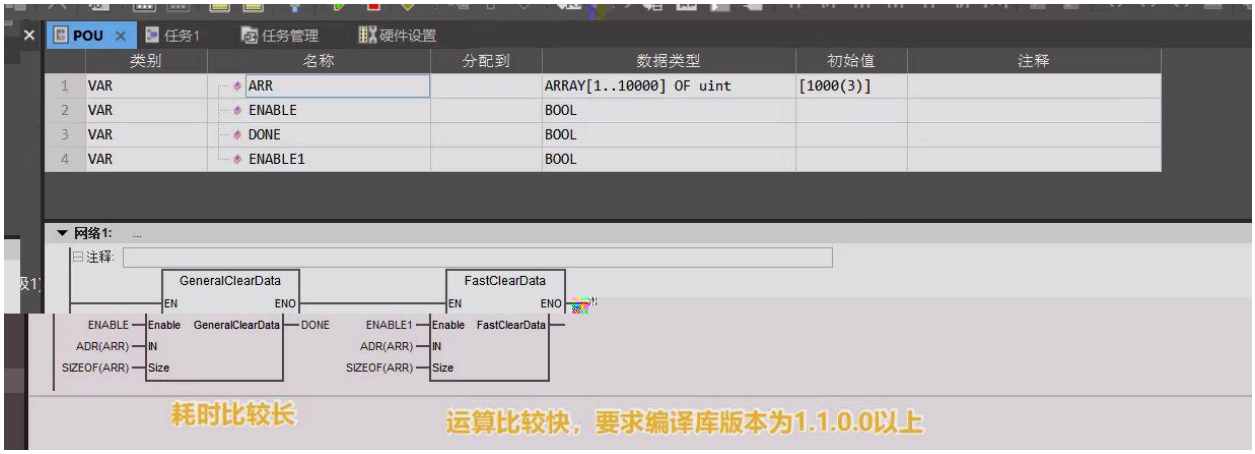
	类别	名称	分配到	数据类型	初始值	注释
11	VAR_INPUT	rFeedPaperLength		REAL		送纸长度
12	VAR_INPUT	rFeedPaperVel		REAL		送纸速度
13	VAR_INPUT	iStatorGroove		INT		定子槽数
14	VAR_INPUT	arFeedPaperSet		ARRAY[1..60]OF INT		送纸设定
15	VAR_INPUT	iCutRunStep		REFERENCE TO INT		打纸自动步序
16	VAR_INPUT	iCutHomeStep		REFERENCE TO INT		打纸回原步序
17	VAR_INPUT	iCutPauesStep		REFERENCE TO INT		打纸暂停步序
18	VAR_INPUT	stFeedPaperCtrl		REFERENCE TO ST_AxisCtrl		送纸结构体
19	VAR_INPUT	iCutStatus		REFERENCE TO INT		状态:0料库空 1打纸中 2打纸...
20	VAR_OUTPUT	iActGroove		INT		当前槽数
21	VAR_OUTPUT	bCutHighSpeed		BOOL		打纸高速
22	VAR_OUTPUT	bCutLowSpeed		BOOL		打纸低速
23	VAR	bCutHighSpeed_Var		BOOL		打纸高速局部变量
24	VAR	bCutLowSpeed_Var		BOOL		打纸低速局部变量
25	VAR	bCutHighSpeed_Retain		BOOL		

7. IP

Ethernet_SetIPAddress IP



8.



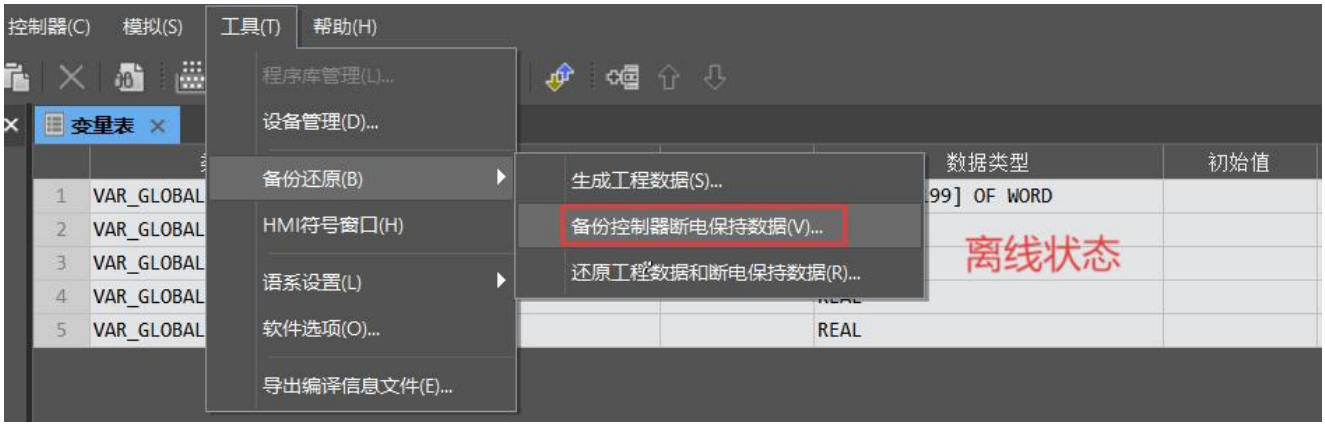
9. Time to DINT

DINT 65536 ns ULINT

10. 16#2103

2ms 3ms 4ms

11.

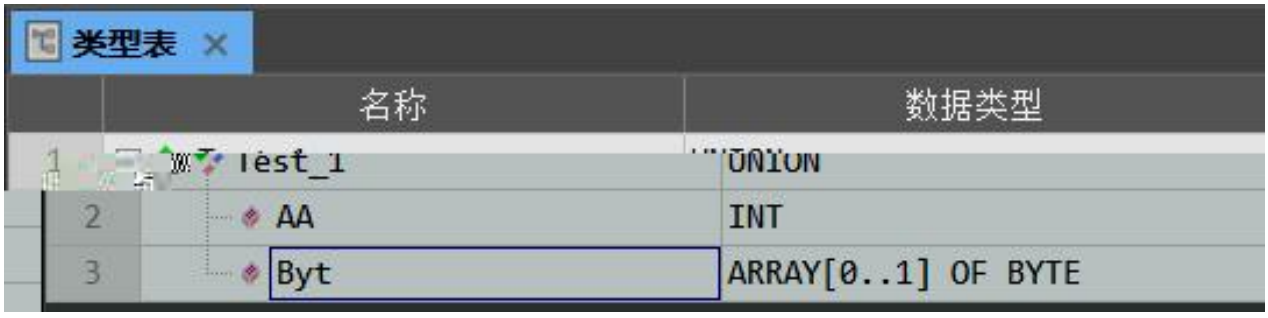


12. M514

13. 4-20ma 200 200

200 200 4-20ma 0ma

14. INT



15. TIME

TIME modbus

16.

80+1 1 modbus

17. ID

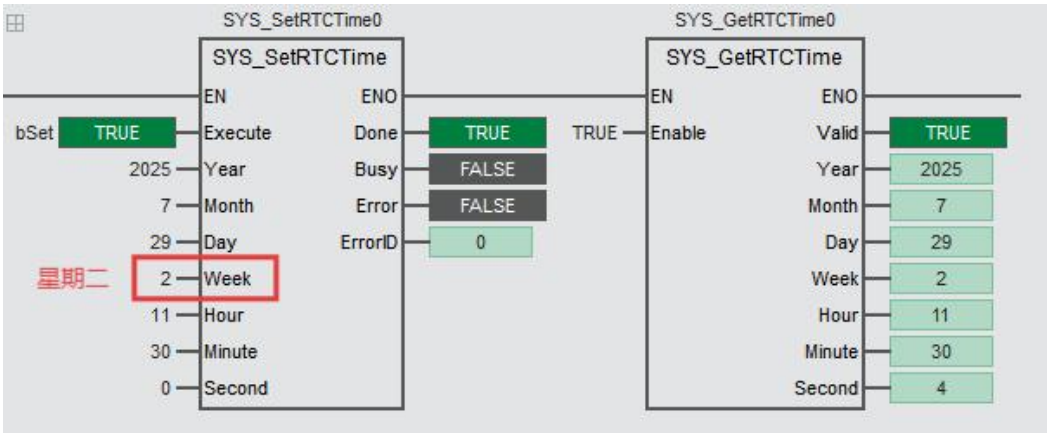
ID PLC

18. M RTC

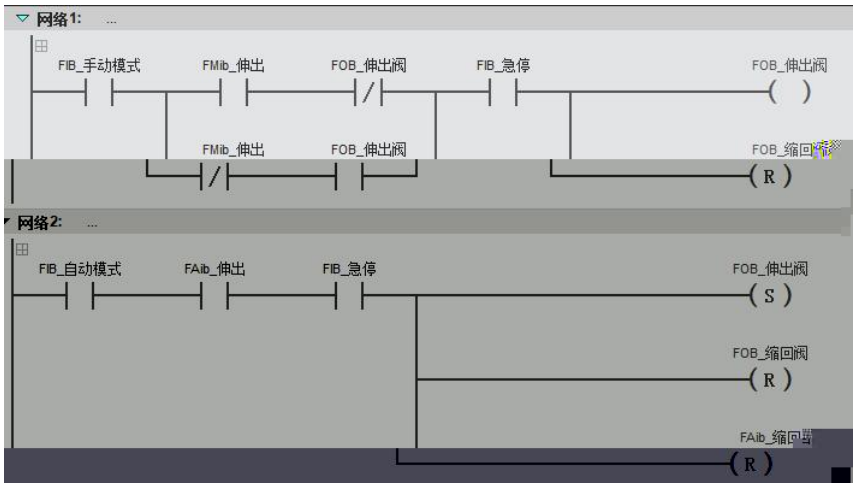
Sysctrl Studio 2.4.0.1705 SYS_SetRTCTime M100 M200 M300 M500 M500S

19. RTC 16690

week 1-7

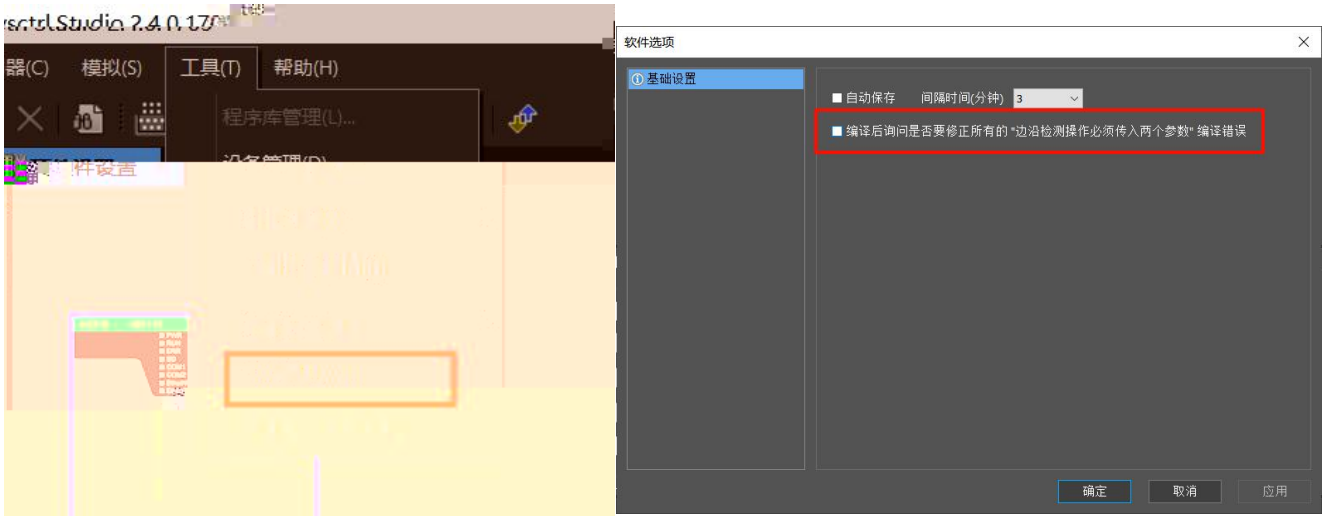


20.

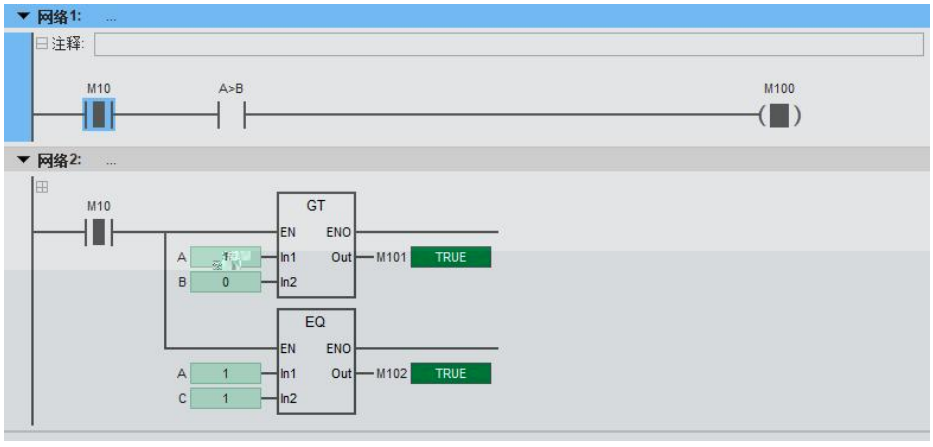

网络1:
FIB_手动模式
FMib_伸出
FOB_伸出阀
FIB_急停
FOB_伸出阀
FMib_伸出
FOB_伸出阀
FOB_缩回阀
R
网络2:
FIB_自动模式
FAib_伸出
FIB_急停
FOB_伸出阀
S
FOB_缩回阀
R
FAib_缩回阀
R

21.

- - - “


器(C)
模拟(S)
工具(T)
帮助(H)
程序库管理(L)...
软件选项
基础设置
自动保存
间隔时间(分钟)
3
编译后询问是否要修正所有的 "边沿检测操作必须传入两个参数" 编译错误
确定
取消
应用

22.


网络1:
注释:
M10
A>B
M100
网络2:
M10
GT
EN
ENO
A
In1
Out
M101
TRUE
B
0
In2
EQ
EN
ENO
A
1
In1
Out
M102
TRUE
C
1
In2

23.

V+ I+

IF

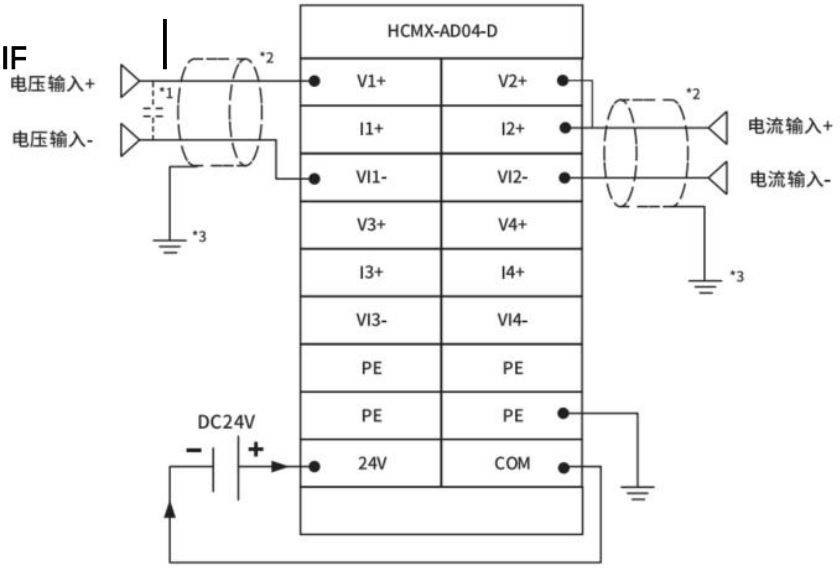
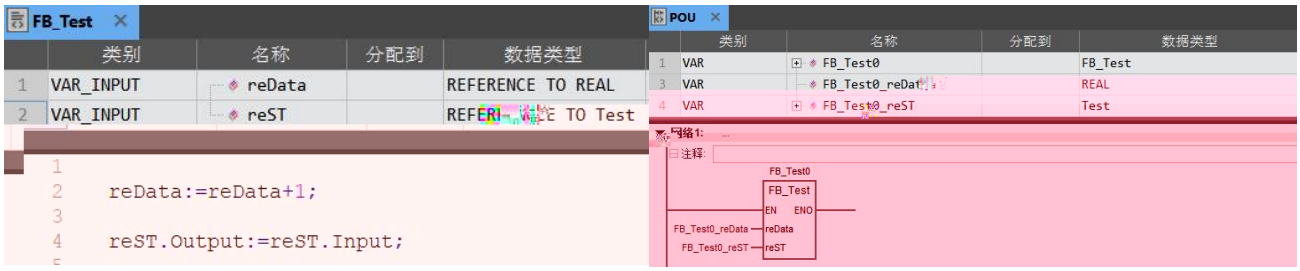


图 8　HCMX-AD04-D 模块端子接线图

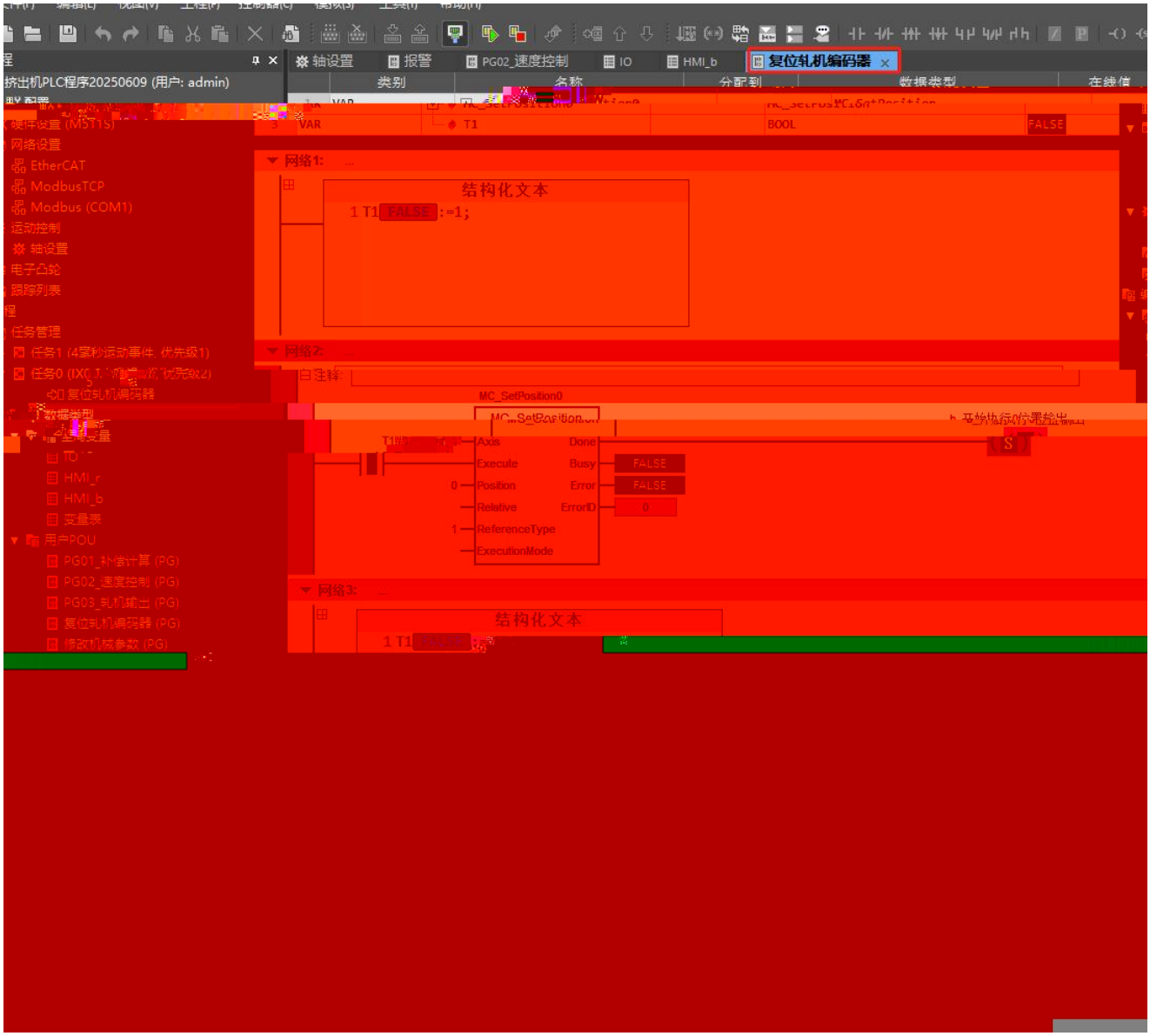
24.　　IF

Sysctrl Studio 2.4.1705　I


FB_Test
类别 名称 分配到 数据类型
1 VAR_INPUT reData REFERENCE TO REAL
2 VAR_INPUT reST REFERENCE TO Test
1
2 reData:=reData+1;
3
4 reST.Output:=reST.Input;
POU
类别 名称 分配到 数据类型
1 VAR FB_Test0 FB_Test
3 VAR FB_Test0_reData REAL
4 VAR FB_Test0_reST Test
网络1:
注释:
FB_Test0
FB_Test
EN ENO
FB_Test0_reData reData
FB_Test0_reST reST

1. MC_Setposition

MC_Setposition



2. 6064 PLC

6064

1:400 23 1 8388608 230.4mm 6064

PLC 6064

23 +Y7S

M 100000 Y7S Pn78C 8388608 Pn78E 100000

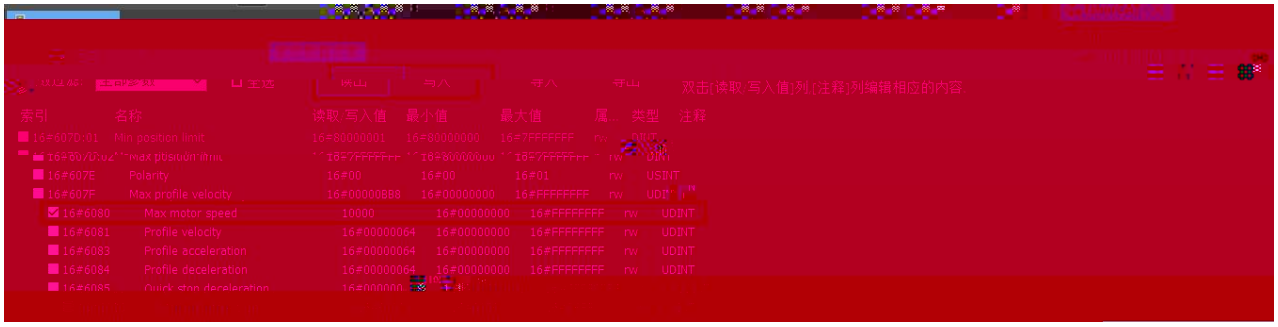
3. M511S M511

M500 PLC PDO XML

PDO 6077 6071

MC_TorqueControlWithVelocity 6080

6080 6080 6080 0 0 10000



4.

M -

5. 200 50-80

MC_TorqueControl InTorque Axis[].ActTrq

6. MC_HomeByPLCIO

On

7.

Jerk Jerk

8.

MC_StopAtPhase

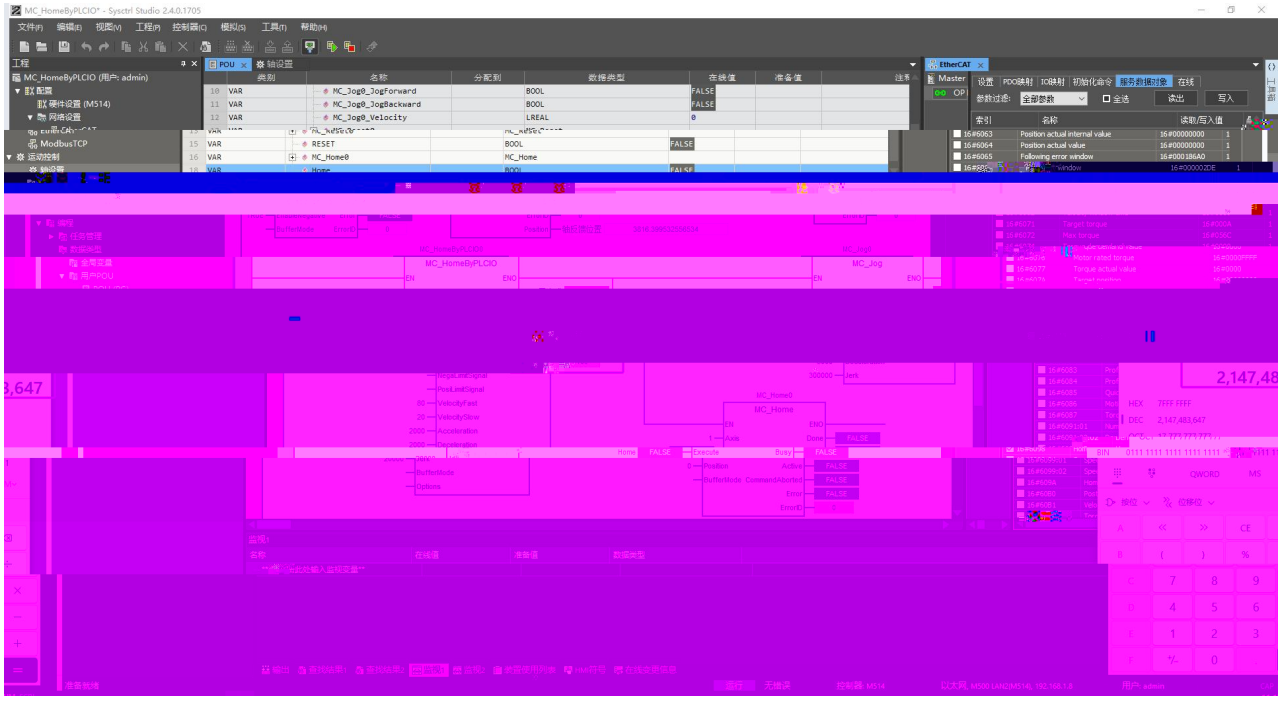
9. MC Stop MC_MoveContinuousVelocity 5377

MC_MoveContinuousVelocity stopping

10. MC_HomeByPLCIO 20 4105

8388608 1:10 150 3839

3839/150*10*8388608=2146924407 607C 2,147,487,744

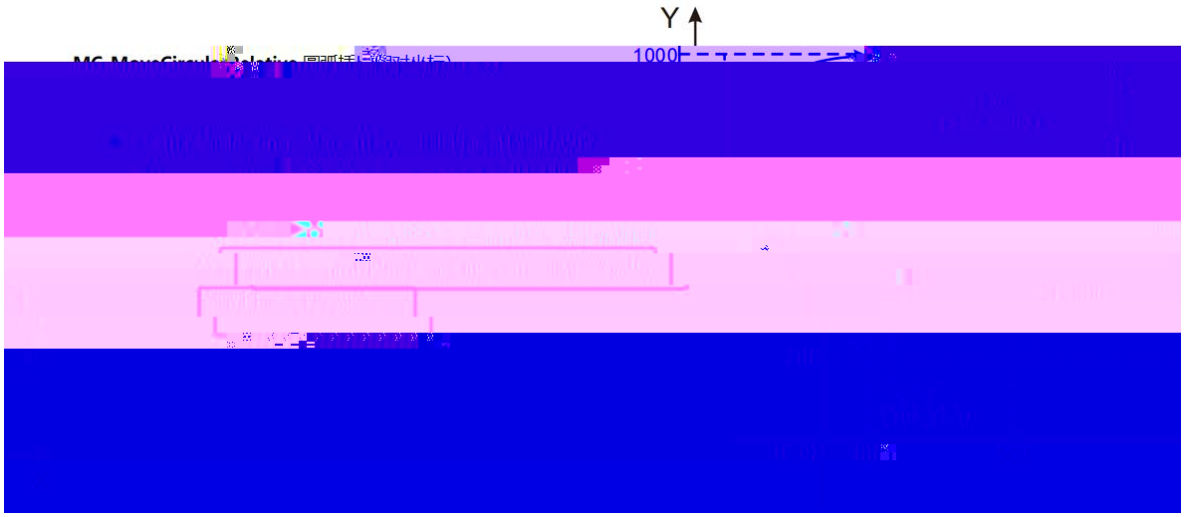


11. 4612

50 0 50 0 0

0 MC_Setposition 0

12. XY 20 4618



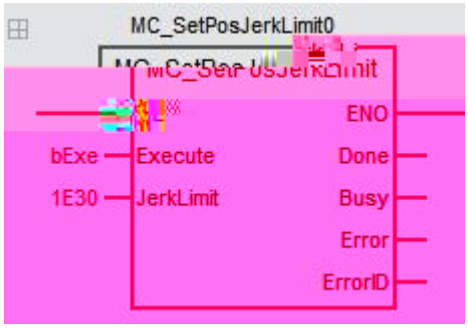
13. MC_HomeByPLCIO homing

PDO 6060

PDO 6060 6061 6040 6041 607A 6064

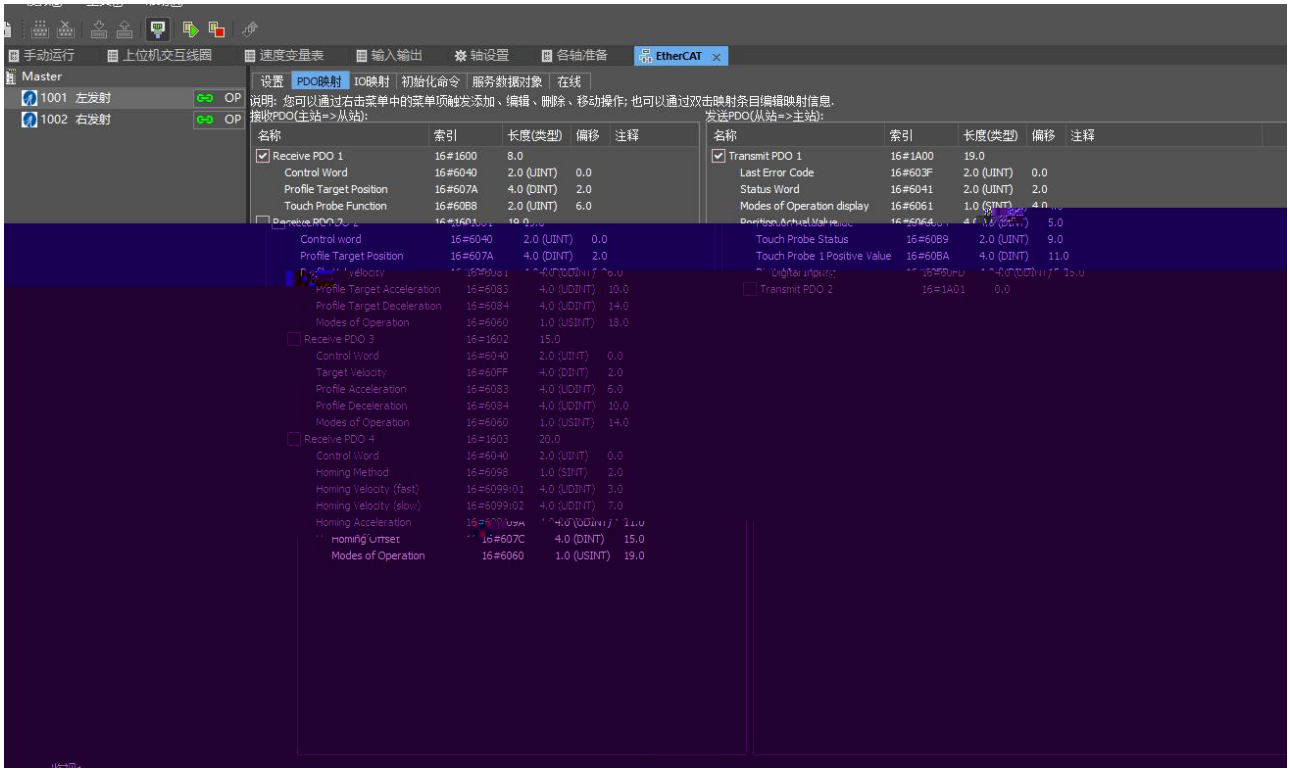
14.

Jerk JerkLimit 1E30



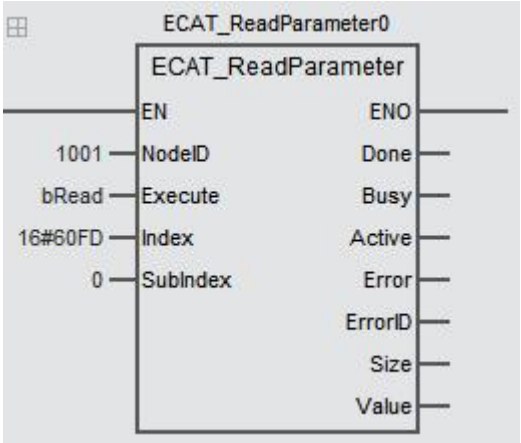
15. M512 op

pdo pdo



16. DI

ECAT_ReadParameter DI SDO



17.

ECAT_ReadParameter,ECAT_WriteParameter ECAT

PDO 1

18. **4123 096**

19. **MC_GearIn InGear Eexcute**

MC_GearIn MC_GearIn

Eexcute InGear

20. **16#2151**

16#2151

21.

360 3600

22.

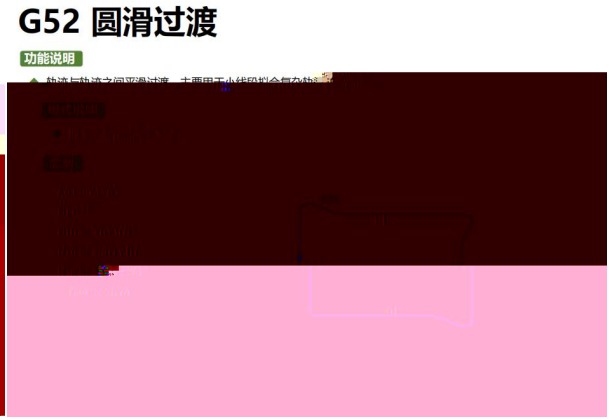
ECAT_WriteParameter SDO 16#60E0 16#60E1

23. **M511S M511 4116**

M500 1.0-1.7 TriggerInput 8-15

24. **3,2**

CNC G52



25.

6080

26.

JERK 1000

27. MC_SetPosition

IF

28. MC_SetPosition 0 Axis[].cmdPos 0

MC_SetPosition MC_ReadActualPosition

29. AXIS[1].CMDPOS

31. M511 Y7S

10000 / plc 10000 / plc

32. M512

M500 PDO PDO 16#606C M

33. Z

Z Axis[1].CmdPos

34.

1,000x1 ÷ 69x131,072=1,899,594.2028985 200Khz

1000

35.

+SetPosition MC_SetOverride 0

36. 4107

buffermode 1 3 0

37.

MC_EncoderCompare M100 M200 M300 M500S

38. MC_home 30 4105

30*10*8388608=2,516,582,400 607C

39. SV730W 4866

730W XML 6080 16#607F

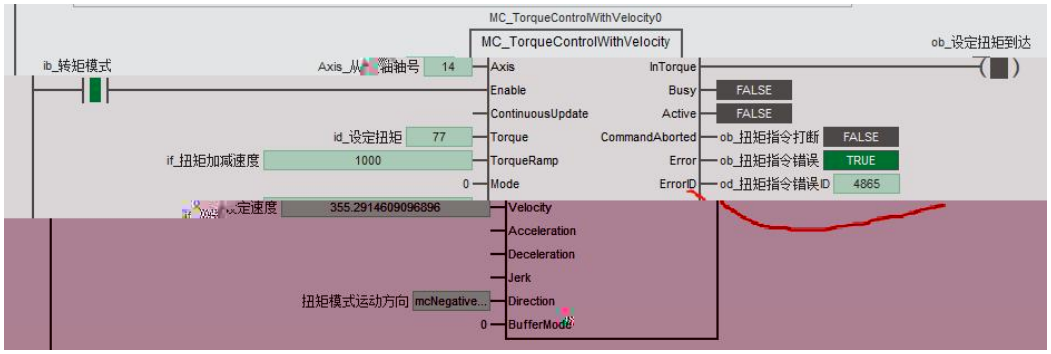
40. MC_TorqueControlwithVelocity 4865

SDO PDO

1) 1ms SDO

2) SDO SDO

SDO SDO



41.

MC_SetCamPoint

MC_GetCamPoint

42. 0

MC_CAMIN MasterValueSource

1 1

43.

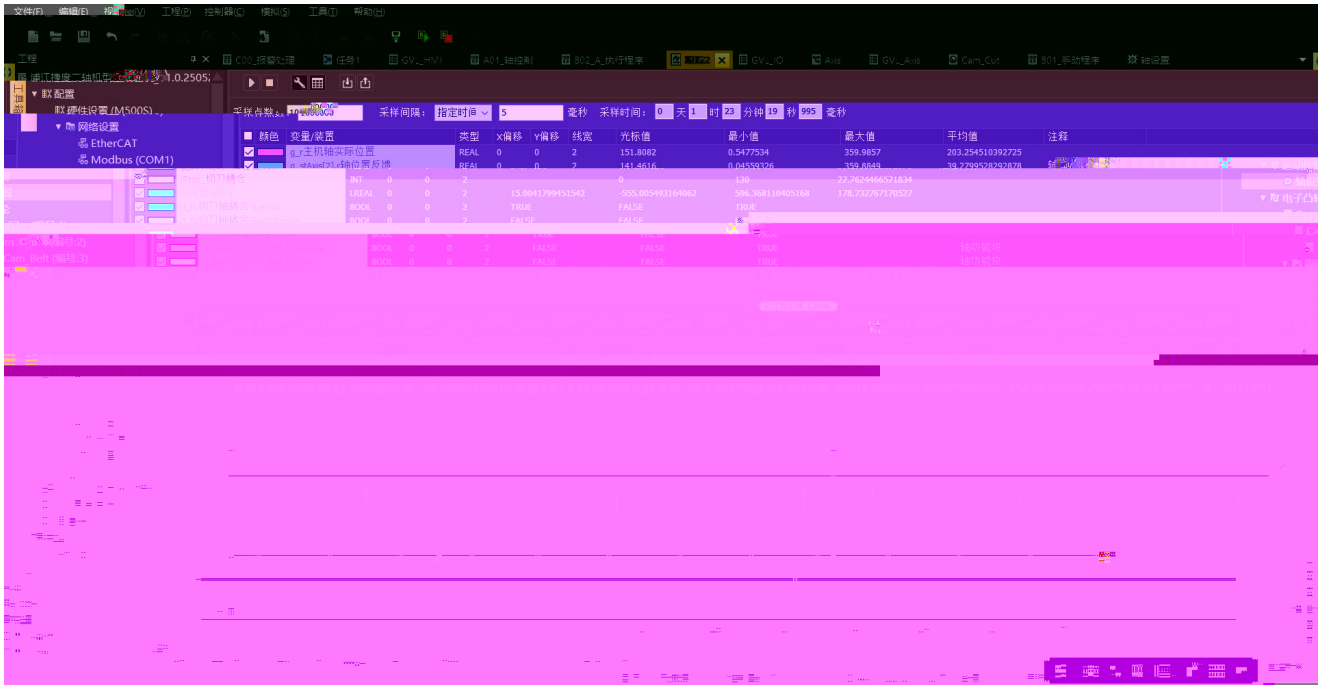
CAM

44. 1:1

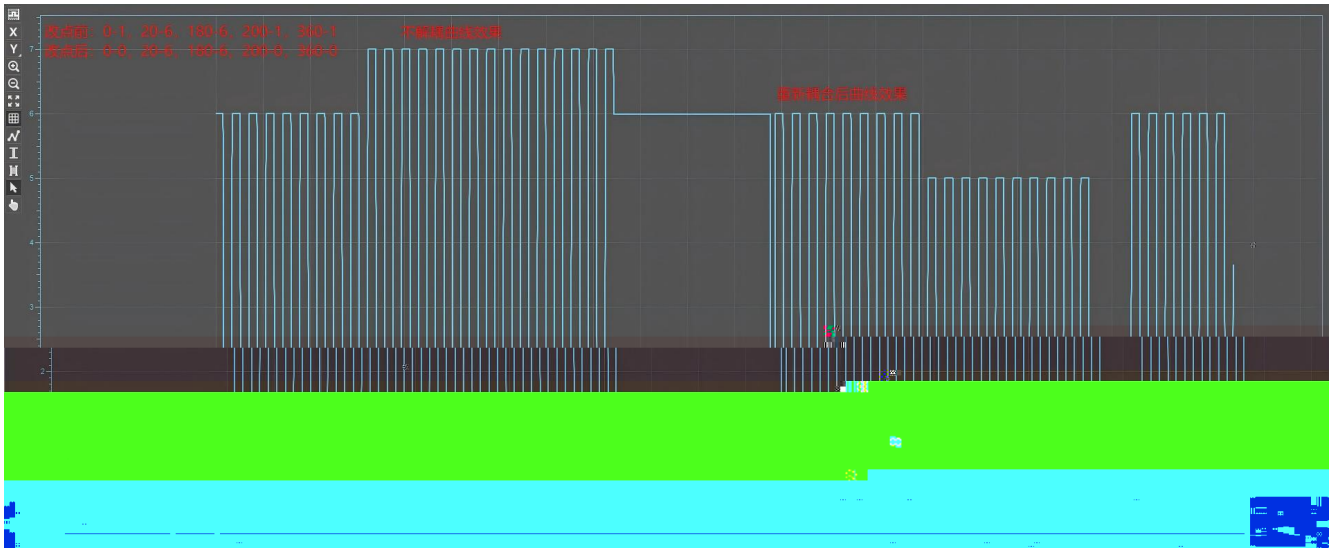
1 camin

AB

2 0 0



45.



1. ——RUN

ERR

2. ——

IP

STOP

3. ——

Sysctrl Studio

4. ——

PLC 0.0

5. M :

Sysctrl Studio

6. M512

500 500

7. “ ”

office 2007

https://blog.csdn.net/qq_33188565/article/details/112859534

8.

.

9. 16#2111

10. RUN PLC STOP