

PM581 – ETH Config

The screenshot shows the SIMATIC Manager interface for configuring a PM581-ETH module. The project tree on the left shows the hierarchy: AC500 > Couplers[FIX] > PM5x1-ETH - Internal-Ethernet[SLOT] > MODBUS on TCP/IP[FIX]. The 'Module parameters' window on the right displays the following table:

In...	Name	V...	D...	Min.	M...
1	Run on config fault	No	No		
4	Do not delete Config on Reset origin	0	0	0	655...
5	UDP Port	0	0	0	655...

VAR	Modbus Adress
Count_1 AT %MW0.670 : INT;	670
Count_2 AT %MW1.970 : INT;	8970
Count_3 AT %MW1.971 : INT;	8971

PM554 – ETH (Client config) --> ETH_MOD_MAST error: 12289
Control Builder Plus 2.3.0 (Realse Build 339)

The screenshot shows the SIMATIC Manager interface for configuring a PM554-ETH module. The project tree on the left shows the hierarchy: AC500_PM554_ETH (AC500 PM554-ETH) > Ethernet (Ethernet) > Onboard_Ethernet (Onboard Ethernet) > IP_Settings (IP Settings) > Modbus_TCP_IP_Client (Modbus TCP/IP Client). The 'Modbus_TCP_IP_Client' window on the right displays the following table:

Parameter	Type	Value	De
Use IP data	Enumeration of BYTE	No	
IP mode	Enumeration of BYTE	Fix	
Link mode	Enumeration of BYTE	Auto Negotiation	Auto
IP address	DWORD	0	
Netmask	DWORD	4294967040	
Gateway	DWORD	0	
Web server active	Enumeration of BYTE	No	
Port	WORD(0..65535)	80	
Connections	BYTE	2	

PM554 – ETH (Client config) --> ETH_MOD_MAST error: 12325
Control Builder Plus 2.3.0 (Realse Build 339)

Parameter	Type	Value	Default Value	Unit	Description
Server connections	BYTE(0..12)	4	0		Number of sockets reserved for OMB server connections
Task timeout	WORD(1..60000)	20	20	100 ms	Task timeout
OMB time	WORD(1..60000)	10	10	100 ms	OMB time
Send timeout	DWORD(0..2000000000)	0	0	ms	Send timeout
Connect timeout	DWORD(0..2000000000)	18000	0	ms	Connect timeout
Close timeout	DWORD(0..2000000000)	0	0	ms	Close timeout
Byte order	Enumeration of BYTE	Big endian	Big endian		Big endian = 1; Little endian = 0
Disable write to %MB0.x from	WORD(0..65535)	0	0		Disable write access beginning with byte in area %MB0.x
Disable write to %MB0.x to	WORD(0..65535)	0	0		Disable write access ending with byte in area %MB0.x
Disable read to %MB0.x from	WORD(0..65535)	0	0		Disable read access beginning with byte in area %MB0.x
Disable read to %MB0.x to	WORD(0..65535)	0	0		Disable read access ending with byte in area %MB0.x
Disable write to %MB1.x from	WORD(0..65535)	0	0		Disable write access beginning with byte in area %MB1.x
Disable write to %MB1.x to	WORD(0..65535)	0	0		Disable write access ending with byte in area %MB1.x

PM554 – ETH – CODE

```

0001 PROGRAM TCP_TEST
0002 VAR
0003   Modmast: ETH_MOD_MAST;
0004
0005   T2: BLINK;
0006   okc: WORD;
0007   nokc: WORD;
0008   ercod: WORD;
0009   last_adrss: WORD;
0010
0011   read_datab: ARRAY[0..10] OF WORD;
0012 END_VAR
0013
0014
0015

```

The ladder logic diagram shows a timer T2 (BLINK) with a 2-second period (T#2s). When T2 is enabled (TRUE), it triggers the Modmast module (ETH_MOD_MAST). The Modmast module has inputs for EN, SLOT, IP_ADR, UNIT_ID, FCT, ADDR, NB, and DATA. The Modmast module outputs are connected to a STATUS module (std1). The STATUS module outputs are okc, nokc, ercod, and last_adrss.

PM581 PLC Browser (Device not connected to the bus.)

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coupler desc|

coupler desc

No.	Name	Man. Date	Ser.No. Dev.No.	FW Version FW Name
Int. 1	PM5x1 Ethernet	2010-10-04 00:00:00	0000034300 0009270120	V01.080 18.08.10 ENOMB PM5x1ETH
Ext. 1	none	n.a.	n.a.	n.a.
Ext. 2	none	n.a.	n.a.	n.a.
Ext. 3	none	n.a.	n.a.	n.a.
Ext. 4	none	n.a.	n.a.	n.a.

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coupler settings

Int. 1 PM5x1 Ethernet -----

Ident: 255 | 16#FF
 IP Address: ██████████
 Netmask: 255.255.255.0
 Gateway: ██████████
 Ethernet Address: ██████████

BOOTP: disabled
 DHCP: disabled
 Interface: Auto
 Speed: Auto
 Duplex: Auto

Socket	Protocol Dev Plc	Port Dev Plc
0	TCP TCP	1201 1201
1	TCP TCP	1200 1200
2	TCP TCP	1201 1201
3	---	---
4	---	---
5	---	---
6	---	---
7	---	---
8	---	---
9	---	---
10	---	---
11	---	---
12	---	---
13	---	---
14	---	---
15	---	---
16	---	---