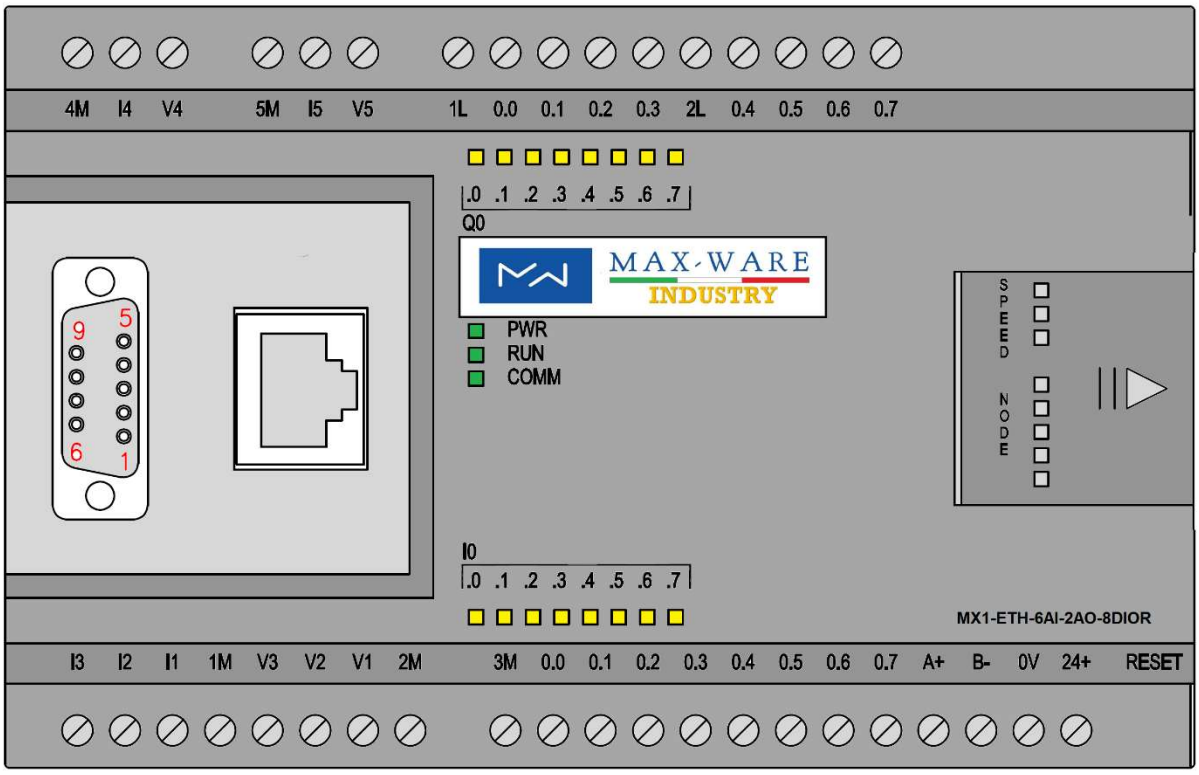
MX1-ETH-6AI-2A0-8DIOR

ETHERNET DATA ACQUISITION MODULE



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1 PRODUCT OVERVIEW

Module is an extended remote distributed IO module that supports S7TCP over Siemens Ethernet Protocol connection to PLC; PLC (without any programming) can be accessed directly through the corresponding register address module to support the PLC.

It has SMART200/300/1200, and also supports the conversion between Modbus RTU and Modbus S7TCP

The IO point of slave module connected through Modbus RTU is transferred to S7TCP, which can be accessed by PLC directly through register address

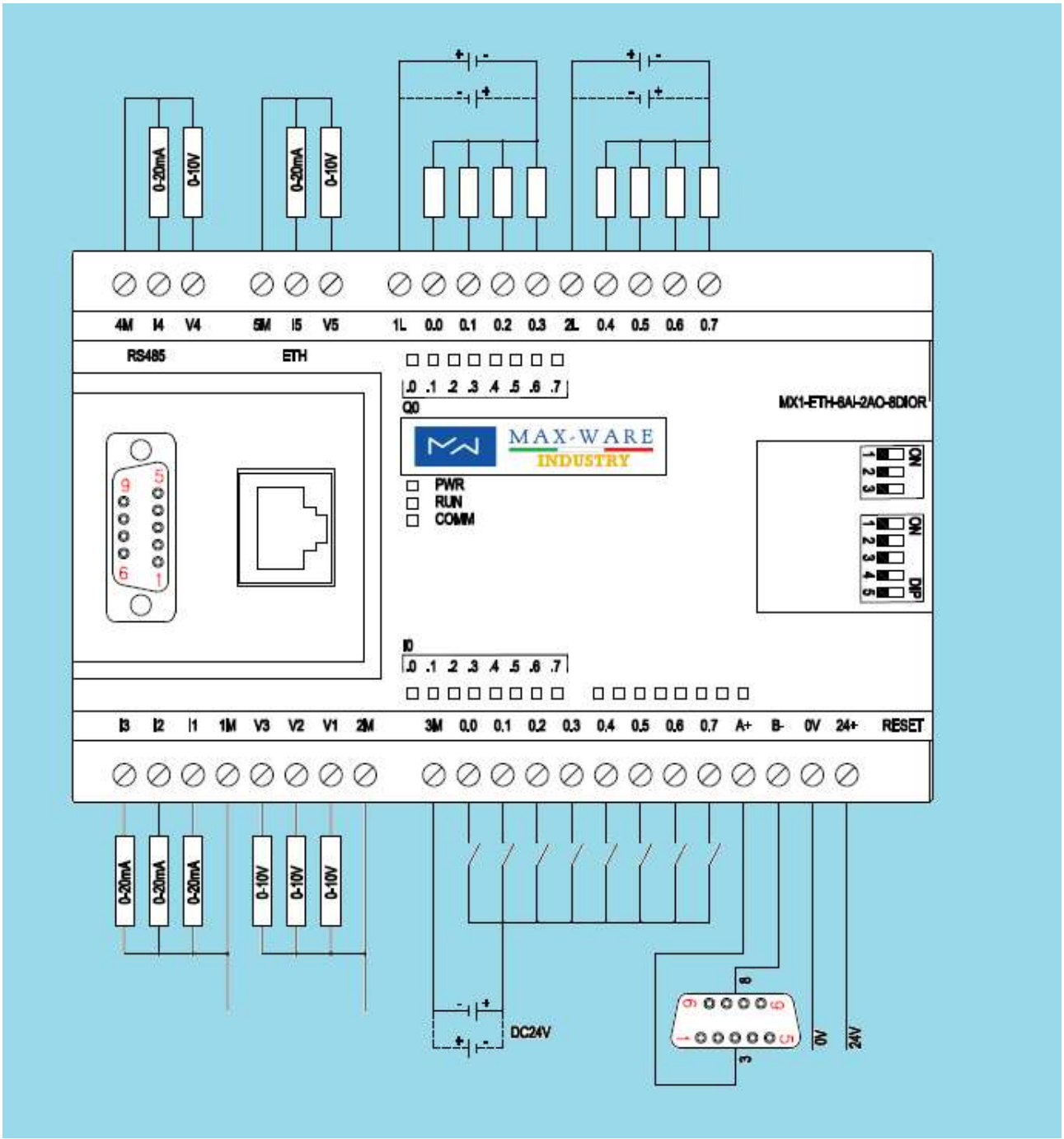
The module also supports MODBUS TCP Server, Modbus RTU Slave Station, Modbus RTU Master Station, Modbus RTU Master Station

- 8-way photoelectric isolation digital input, 8-way relay digital output (corresponding to the number of status indicator)
- 6-way 12-bit analog input, 1-way 12-bit analog output
- 2 way 485 interface, 1-way DB9 master, 1-way terminal, independent use
- RJ45 port, 10/100 Mbps Ethernet communication
- With baud rate, station number dial switch, easy to set module parameters
- Support S7TCP client protocol, can be directly used as the Siemens Ethernet PLC Expansion Module.
- Modbus supports Modbus TCP, Modbus and TCP protocols, as well as 4 Modbus TCP connections
- The system has built-in Modbus TCP to Modbus RTU, Modbus RTU to Modbus TCP; it can be used as TCP network server or client
- It supports converting up to 6 Modbus RTU slave stations and this module into 1 Modbus TCP server control corresponding to the number of configuration points

2 PRODUCT SPECIFICATION

DIGITAL INPUT	8 DIGITAL INPUT Switch contact signal or level signal (PNP or NPN) Effective range: dc 20-28 vdc Optocupler isolation
DIGITAL OUTPUT	8 DIGITAL OUTPUT Relay output normally open contacts (PNP or NPN) Contact capacity: 30vdc/5A 250vac/5A Mechanical isolation
ANALOGIC INPUT	3 ANALOG INPUT 0-10V 3 ANALOG INPUT 4..20MA Conversion accuracy: 12bit (0-4096 INT)
ANALOGIC OUTPUT	2 ANALOG OUTPUT Type: 0-10v or 4..20ma Conversion accuracy: 12bit (0-4096 INT)
COM PORT 1	Type: RS485 2 wire A-B Baudrate: 4800-115200 (cfg) Comunication format: Default 8-bit data, 1-bit stop, no check (cfg) Address range: 1-254 Trasmission distance: 1200m Comunication mode: MODBUS RTU slave
COM PORT 2	Type: RS485 DB9 (3A+ , 8B- , 5ground) Baudrate: 4800-115200 (cfg) Comunication format: Default 8-bit data, 1-bit stop, no check (cfg) Address range: 1-254 Trasmission distance: 1200m Comunication mode: MODBUS RTU master
ETHERNET PORT	Type: RJ45 Local area network 10/100mbps, full duplex, adaptive Comunication protocol: MODBUS TCP , TCP/IP Default ip address: 192.168.1.12
POWER	Operating voltage: DC 24V; with anti-reverse protection Power consuption: 2–4 W
TEMPERATURE	-20℃ +70℃
DIMENSIONS	125MM (length) * 80MM (width) * 50MM (height
INSTALLATION MODE	Guide rail DIN

3 WIRING


0-20mA
0-10V
4M I4 V4 5M I5 V5 1L 0.0 0.1 0.2 0.3 2L 0.4 0.5 0.6 0.7
RS485
ETH
.0 .1 .2 .3 .4 .5 .6 .7
Q0
MAX-WARE
INDUSTRY
PWR
RUN
COMM
MX1-ETH-6AI-2AO-8DIOR
ON
DIP
I0
I3 I2 I1 1M V3 V2 V1 2M 3M 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 A+ B- 0V 24+ RESET
DC24V
24V

ANALOG OUTPUT		DIGITAL OUTPUT		POWER	
4M	Com ch7 output	1L	Com 0.0 - 0.3	24+	24VDC
I4	Ch7 output current	0.0	Ch1 digital output	0V	0 VDC
V4	Ch7 output voltage	0.1	Ch2 digital output	COM 1	
5M	Com ch8 output	0.2	Ch3 digital output	A	A+
I5	Ch8 output current	0.3	Ch4 digital output	B	B-
V5	Ch8 output voltage	2L	Com 0.4 - 0.7	COM 2 (DB9)	
ANALOG INPUT		0.4	Ch5 digital output	PIN 3	A+
V1	Ch1 voltage input	0.5	Ch6 digital output	PIN 8	B-
V2	Ch2 voltage input	0.6	Ch7 digital output	PIN 5	GROUND
V3	Ch3 voltage input	0.7	Ch8 digital output		
2M	Com voltage input	DIGITAL INPUT			
I1	Ch4 current input	3M	Com		
I2	Ch5 current input	0.0	Ch1 digital input		
I3	Ch6 current input	0.1	Ch2 digital input		
1M	Com current input	0.2	Ch3 digital input		
		0.3	Ch4 digital input		
		0.4	Ch5 digital input		
		0.5	Ch6 digital input		
		0.6	Ch7 digital input		
		0.7	Ch8 digital input		

Dip switch speed of COM 2

1	2	3	speed
OFF	OFF	OFF	9600
ON	OFF	OFF	19200
OFF	ON	OFF	38400
ON	ON	OFF	57600
OFF	OFF	ON	115200
ON	OFF	ON	9600
OFF	ON	ON	9600
ON	ON	ON	4800

Dip switch node of COM 2

1	2	3	4	5	node
OFF	OFF	OFF	OFF	OFF	1
ON	OFF	OFF	OFF	OFF	2
OFF	ON	OFF	OFF	OFF	3
ON	ON	OFF	OFF	OFF	4
OFF	OFF	ON	OFF	OFF	5
ON	OFF	ON	OFF	OFF	6
OFF	ON	ON	OFF	OFF	7
ON	ON	ON	OFF	OFF	8
OFF	OFF	OFF	ON	OFF	9
ON	OFF	OFF	ON	OFF	10
OFF	ON	OFF	ON	OFF	11
ON	ON	OFF	ON	OFF	12
OFF	OFF	ON	ON	OFF	13
ON	OFF	ON	ON	OFF	14
OFF	ON	ON	ON	OFF	15
ON	ON	ON	ON	OFF	16
OFF	OFF	OFF	OFF	ON	17
ON	OFF	OFF	OFF	ON	18
OFF	ON	OFF	OFF	ON	19
ON	ON	OFF	OFF	ON	20
OFF	OFF	ON	OFF	ON	21
ON	OFF	ON	OFF	ON	22
OFF	ON	ON	OFF	ON	23
ON	ON	ON	OFF	ON	24
OFF	OFF	OFF	ON	ON	25
ON	OFF	OFF	ON	ON	26
OFF	ON	OFF	ON	ON	27
ON	ON	OFF	ON	ON	28
OFF	OFF	ON	ON	ON	29
ON	OFF	ON	ON	ON	30
OFF	ON	ON	ON	ON	31
ON	ON	ON	ON	ON	32

4 COMMUNICATION FUNCTION

SERIAL PORT FUNCTION

PORT	SUPPORT FUNCTION	MAX CONNECTION	DESCRIPTION
COM 1	MODBUS TCP TO MODBUS RTU MODBUS RTU TO MODBUS TCP MODBUS RTU SLAVE TCP PASSTHROUGHT	2	When the host computer configures COM1 for TCP to RTU function, COM1 can beconnected to other MODBUS RTU slave stations; realize Ethernet control of otherMODBUS RTU slave modules (corresponding to port 502 of TCP connection). When the host computer configures COM1 for RTU function: 1) When the received station number is the same as this module, other MODBUSRTU masters can access this device via MODBUS RTU protocol. 2) When the received station number does not correspond to this module, otherMODBUS RTU masters can access the MODBUS TCP server device via this module. When COM1 is configured for the pass-through function, COM1 achieves datapass-through with the TCP connection on port 9503 (corresponding to port 9503of the TCP connection).
COM 2	MODBUS TCP TO MODBUS RTU MODBUS RTU TO MODBUS TCP MODBUS RTU MASTER TCP PASSTHROUGHT	1	1、When the host computer configures COM2 for TCP to RTU function, COM2 canbe connected to other MODBUS RTU slaves; to achieve Ethernet control of otherMODBUS RTU slave modules (corresponding to TCP connection of port9502/9503). 2、When the host computer configures COM2 for RTU function, other MODBUSRTU masters can access the device via MODBUS RTU protocol. 3、When COM2 is configured for the pass-through function, the TCP connectionbetween COM2 and port 9502 is used for data pass-through (corresponding to TCPconnection of port 9502). When configuring the MODBUS master function, COM2 can convert up to 6MODBUS RTU slaves with this module to 1 MODBUS TCP server controlcorresponding to the number of IO and holding/input register points configured intheir web pages via port 5502. (corresponds to TCP connection port 5502)

COM PORT FUNCTION

Port	MODBUS RTU Slave	MODBUS master to MODBUS TCP	MODBUS TCP to MODBUS RTU	MODBUS RTU to MODBUS TCP	TCP to serial portpass-through
COM1	Support	Not supported	502	Support (websetting)	9503
COM2	Support	5502 Port	9502、9503	Not supported	9502

RECIVE DATA LEGHT

PORT	TCP Transparent Transmission	TCP Transparent Transmission	MODBUS protocol	MODBUS protocol	MASTER function
	Receive data Maximum allowable length				Number of slave stations
COM 1	512	512	240	240	
COM 2	512	512	240	240	5
TCP	512	512	512	512	

MODBUS TCP FUNCTION

The MODBUS TCP function is accessed when the MODBUS TCP message address is the module address i.e. MODBUS TCP function

Category	Parameter details	Description
TCP server IP	192.168.50.99	This IP is the default value,
TCP server port	502、9502、9503	Fixed port
Module Address	1~126	Factory module station number 1, settable range 1~126

MODBUS TCP TO MODBUS RTU FUNCTION

Directly converts MODBUS TCP requests into MODBUS RTU requests and sends them to the slave via RS485 port; then converts the corresponding slave reply data into MODBUS TCP messages and sends them to the host computer, see the following table for the relevant parameters.

Category	Parameter details		Description
	COM1	COM 2	
TCP server IP	192.168.50.99	192.168.50.99	This IP is the default value
TCP server port	502	9502、9503	TCP server port 502 9502, 9503 fixed port, where port 502 can support up to 2 uplinks
Serial port mode	TCP 转 RTU	TCP 转 RTU	Serial port mode TCP to RTU
MODBUS RTU slave address	2~254	2~254	The MODBUS slave address connected to theRS485 port of the unit must be in the range 2~254 and not conflict with the module address
RS485 serial port parameters	Default parameters: Baudrate: 9600, 8 bits datawithout parity, 1 bit stopbit	Default parameter: Baudrate:9600, 8 bits datawithout parity, 1 bit stopbit	Serial port parameters

MODBUS RTU TO MODBUS TCP FUNCTION

COM1 port of this module supports conversion of MODBUS RTU messages to MODBUS TCP messages; it enables dataconversion between MODBUS RTU master and MDOBUC TCP server. When the COM1 port is in “RTU” mode, the moduleautomatically starts MODBUS TCP client function and automatically connects to the remote MODBUS TCP server set up viathe web page. The relevant parameters are described in the following table:

Category	Parameter	Details
	COM 1	
Remote ServerIP	192.168.50.124	The IP and port are the factory default parameters
Remote serverport	8080	The IP and port are the factory default parameters
Serial PortMode	RTU	serial port mode to RTU
RS485 serial port parameters	Default parameters: Baud rate: 9600, 8bits data without parity, 1 bit stop bit	Serial Port Parameters

MODBUS RTU FUNCTIONALITY

Both COM1 and COM2 ports of this module support MODBUS RTU function. When the COM1 or COM2 port is in “RTU”mode, the module can be used as a MODBUS RTU slave device. The relevant parameters are described in the following table:

Category	Parameter details	Description
MODBUSRTU Slave Address	1~126	The station number of this module can be set When COM1 port receives the same station number as this module, it will betreated as MODBUS RTU message; otherwise, MODBUS RTU message will beconverted to MODBUS TCP, i.e.
Serialmode	RTU	the serial port mode to RTU.
RS485 serial port parameters	Default parameters: Baudrate: 9600, 8 bits datawithout parity, 1 bit stopbit	Serial Port Parameters

MODBUS TCP CONTROL MULTISLAVE

The COM2 port of this module supports MODBUS RTU master function, this function is used to convert up to 6 MODBUSRTU slaves connected to COM2 port and the number of IO points of this module into 1 MODBUS TCP server, which can beused for reading and writing of all slaves through 1 MODBUS TCP connection.

The module register address is the first (if the module address is 2-7 and the RTU station number “conflicts”, it remainsfirst), and the rest of the registers of lower stations are first.

Category	Parameter details	Description
Serial port number	COM2	
TCP server IP	192.168.50.99	This IP is the default
TCP server port	5502	Fixed port
Module Address	1~126	Factory module station number 1, settable range 1~126
Remaining MODBUSRTU slave addresses	2~7	Remaining MODBUS RTU slave addresses 2~7
Maximum number of MODBUS RTU slave stations	6	This module is a MODBUS TCP server
Serial mode	MODBUS Master	Turning on the master mode for setting
COM2 serial port parameters	Default parameters: Baud rate:9600, 8 bits data without parity, 1bit stop bit	COM2 serial parameters should be modified, all slave serial parameters should be the same

After setting COM2 mode to MODBUS RTU master and configuring the corresponding slave points on the web page the module’s COM2 will automatically start MODBUS RTU master timed scan.

5 RESTORE TO FACTORY DEFAULT

When the module is powered on and the RUN light is flashing, press and hold the reset button (about 5S) until the RUN light becomes normal and then release the button, the RUN light will be on for 5S and then resume flashing, then power off the module for at least 3S and power on, the module will restore the factory parameters, as shown in the table below.

Parameter Name	Parameter Default Value
IP address of the module	192.168.50.99
Module Address	Factory 1, DIP2 dip switch corresponds to station numbers 1~32
Serial communication parameters	Baud rate 9600, 8 bits of data, 1 bit of stop bit, no parity;The COM2 port baud rate is 9600 at the factory, and the DIP1 dip switch corresponds to the baud rate after use
Serial port mode	COM1, COM2 serial modes are MODBUS TCP to MODBUS RTU
Bus error mode	The mode is bus error reset, the time threshold for determining bus error is 2s
Remote server IP	address:192.168.50.124, port:8080
MODBUS TCP control Multi-slave communication configuration	The number of coil components, discrete components, read-only registers and read-write registers of “Station 1~Station 6” on the module IP is on webserver page

6 MODBUS ADDRESS TABLE

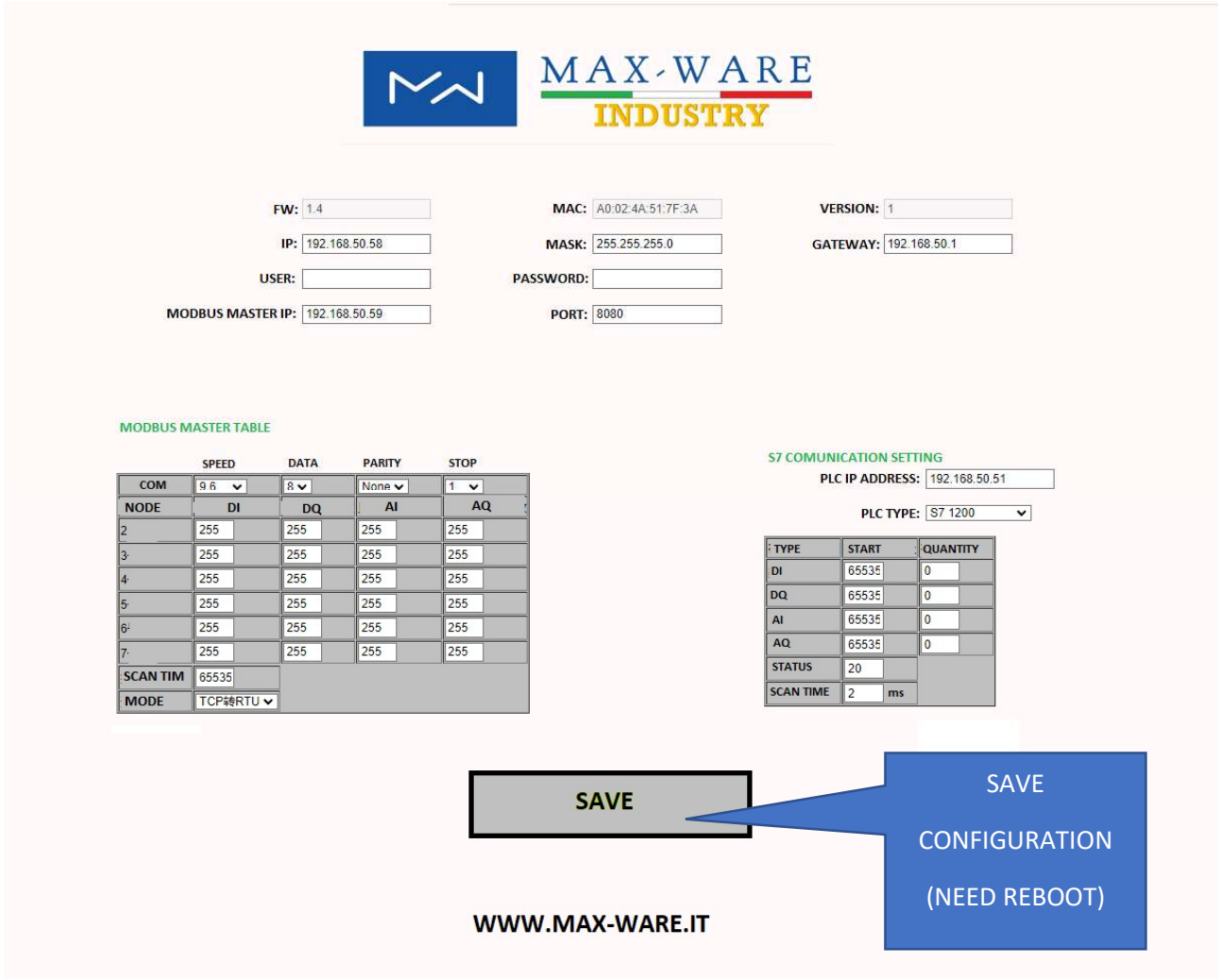
NAME	PLC ADDRESS	MODBUS ADDRESS	FUNCTION
DIGITAL INPUT CH 1	10001	0x00	0x02
DIGITAL INPUT CH 2	10002	0x01	0x02
DIGITAL INPUT CH 3	10003	0x02	0x02
DIGITAL INPUT CH 4	10004	0x03	0x02
DIGITAL INPUT CH 5	10005	0x04	0x02
DIGITAL INPUT CH 6	10006	0x05	0x02
DIGITAL INPUT CH 7	10007	0x06	0x02
DIGITAL INPUT CH 8	10008	0x07	0x02
DIGITAL INPUT CH 9	10009	0x08	0x02
DIGITAL INPUT CH 10	10010	0x09	0x02
DIGITAL INPUT CH 11	10011	0x10	0x02
DIGITAL INPUT CH 12	10012	0x11	0x02
DIGITAL INPUT CH 13	10013	0x12	0x02
DIGITAL INPUT CH 14	10014	0x13	0x02
DIGITAL INPUT CH 15	10015	0x14	0x02
DIGITAL INPUT CH 16	10016	0x15	0x02
DIGITAL INPUT CH 17	10017	0x16	0x02
DIGITAL INPUT CH 18	10018	0x17	0x02
DIGITAL INPUT CH 19	10019	0x18	0x02
DIGITAL INPUT CH 20	10020	0x19	0x02
DIGITAL INPUT CH 21	10021	0x20	0x02
DIGITAL INPUT CH 22	10022	0x21	0x02
DIGITAL INPUT CH 23	10023	0x22	0x02
DIGITAL INPUT CH 24	10024	0x23	0x02
DIGITAL INPUT CH 25	10025	0x24	0x02
DIGITAL INPUT CH 26	10026	0x25	0x02
DIGITAL INPUT CH 27	10027	0x26	0x02
DIGITAL INPUT CH 28	10028	0x27	0x02
DIGITAL INPUT CH 29	10029	0x28	0x02
DIGITAL INPUT CH 30	10030	0x29	0x02
DIGITAL INPUT CH 31	10031	0x30	0x02
DIGITAL INPUT CH 32	10032	0x31	0x02
DIGITAL OUTPUT CH 1	1	0x00	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 2	2	0x01	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 3	3	0x02	0x01 , 0x05 , 0x0F

DIGITAL OUTPUT CH 4	4	0x03	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 5	5	0x04	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 6	6	0x05	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 7	7	0x06	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 8	8	0x07	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 9	9	0x08	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 10	10	0x09	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 11	11	0x10	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 12	12	0x11	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 13	13	0x12	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 14	14	0x13	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 15	15	0x14	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 16	16	0x15	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 17	17	0x16	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 18	18	0x17	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 19	19	0x18	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 20	20	0x19	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 21	21	0x20	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 22	22	0x21	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 23	23	0x22	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 24	24	0x23	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 25	25	0x24	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 26	26	0x25	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 27	27	0x26	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 28	28	0x27	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 29	29	0x28	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 30	30	0x29	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 31	31	0x30	0x01 , 0x05 , 0x0F
DIGITAL OUTPUT CH 32	32	0x31	0x01 , 0x05 , 0x0F
ANALOG INPUT CH 1	30001	0x00	0x04
ANALOG INPUT CH 2	30002	0x01	0x04
ANALOG INPUT CH 3	30003	0x02	0x04
ANALOG INPUT CH 4	30004	0x03	0x04
ANALOG INPUT CH 5	30005	0x04	0x04
ANALOG INPUT CH 6	30006	0x05	0x04
ANALOG INPUT CH 7	30007	0x06	0x04
ANALOG INPUT CH 8	30008	0x07	0x04
ANALOG OUTPUT CH 1	40001	0x00	0x03 , 0x06
ANALOG OUTPUT CH 2	40002	0x01	0x03 , 0x06
ANALOG OUTPUT CH 3	40003	0x02	0x03 , 0x06

ANALOG OUTPUT CH 4	40004	0x03	0x03 , 0x06
ANALOG OUTPUT CH 5	40005	0x04	0x03 , 0x06
ANALOG OUTPUT CH 6	40006	0x05	0x03 , 0x06
ANALOG OUTPUT CH 7	40007	0x06	0x03 , 0x06
ANALOG OUTPUT CH 8	40008	0x07	0x03 , 0x06
SYSTEM			
NAME		MODBUS ADDRESS	default
RESERVED		0x00	100
RESERVED		0x01	1
ADDRESS		0x02	1
COM1 PARAMETER		0x03	9600,1,8,NONE
FRAME END TIME		0x04	0
DISCRETE INPUT DISPLAY MODE		0x05	0
RESERVED		0x06	
RESERVED		0x07	
BUS MODE		0x08	401
LOCAL IP SEGMENT 1		0x09	192.168
LOCAL IP SEGMENT 2		0x0A	1.12
LOCAL MAC 1		0x0B	255.255
LOCAL MAC 2		0x0C	255.255
LOCAL MAC 3		0x0D	255.255
COM2 PARAMETER		0x0E	9600,1,8,NONE
CONF SERIAL PORT MODE		0x0F	0

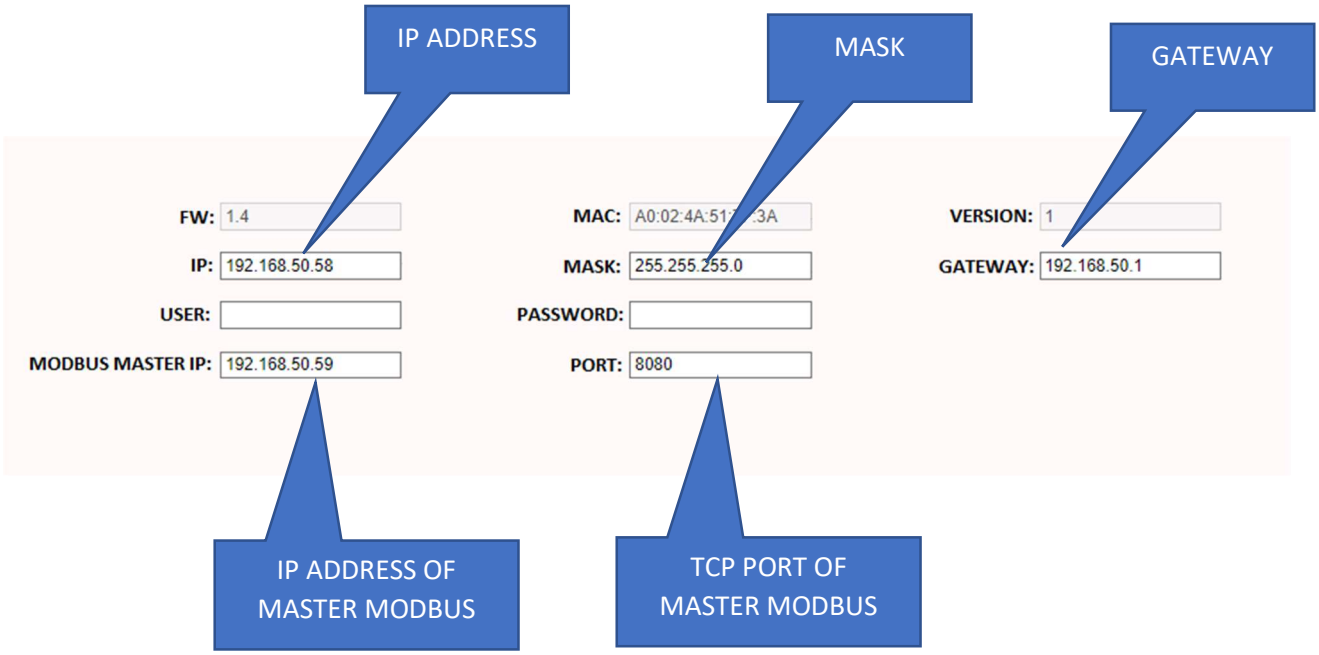
7 CONFIGURATION

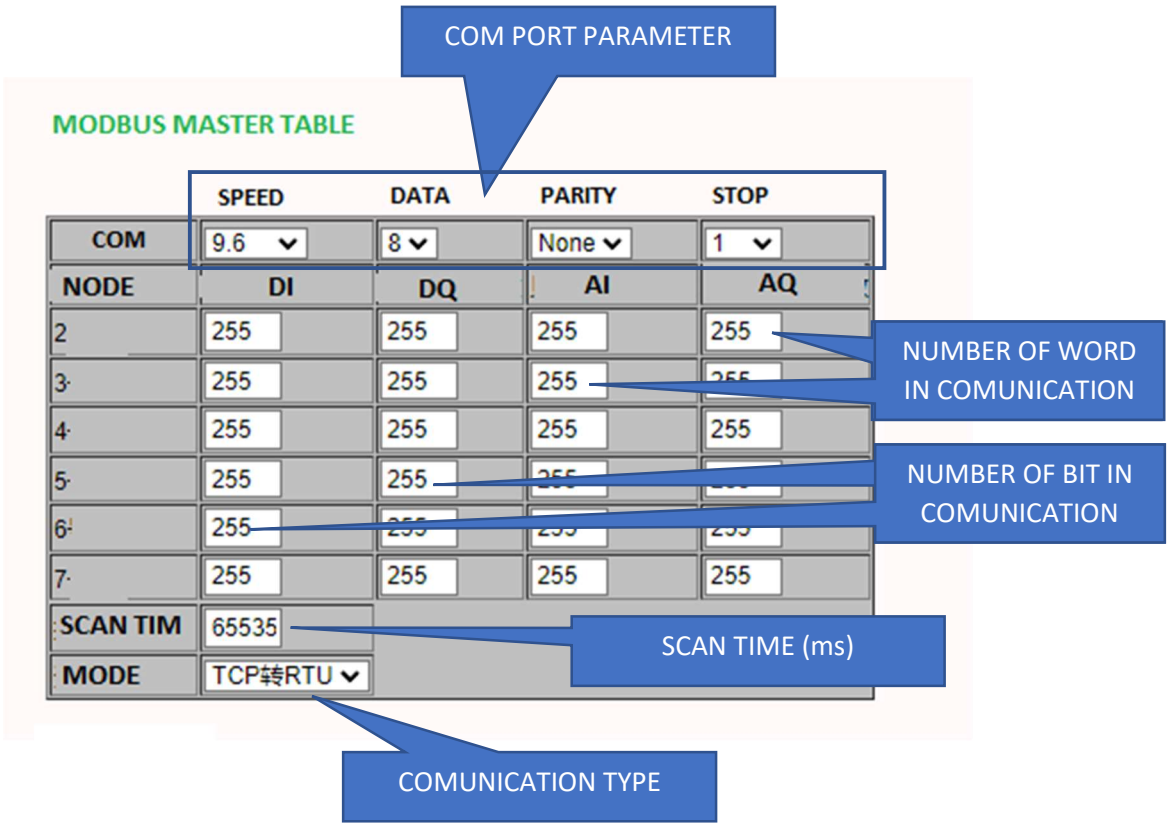
WEB-SERVER (DEFAULT IP 192.168.50.99)

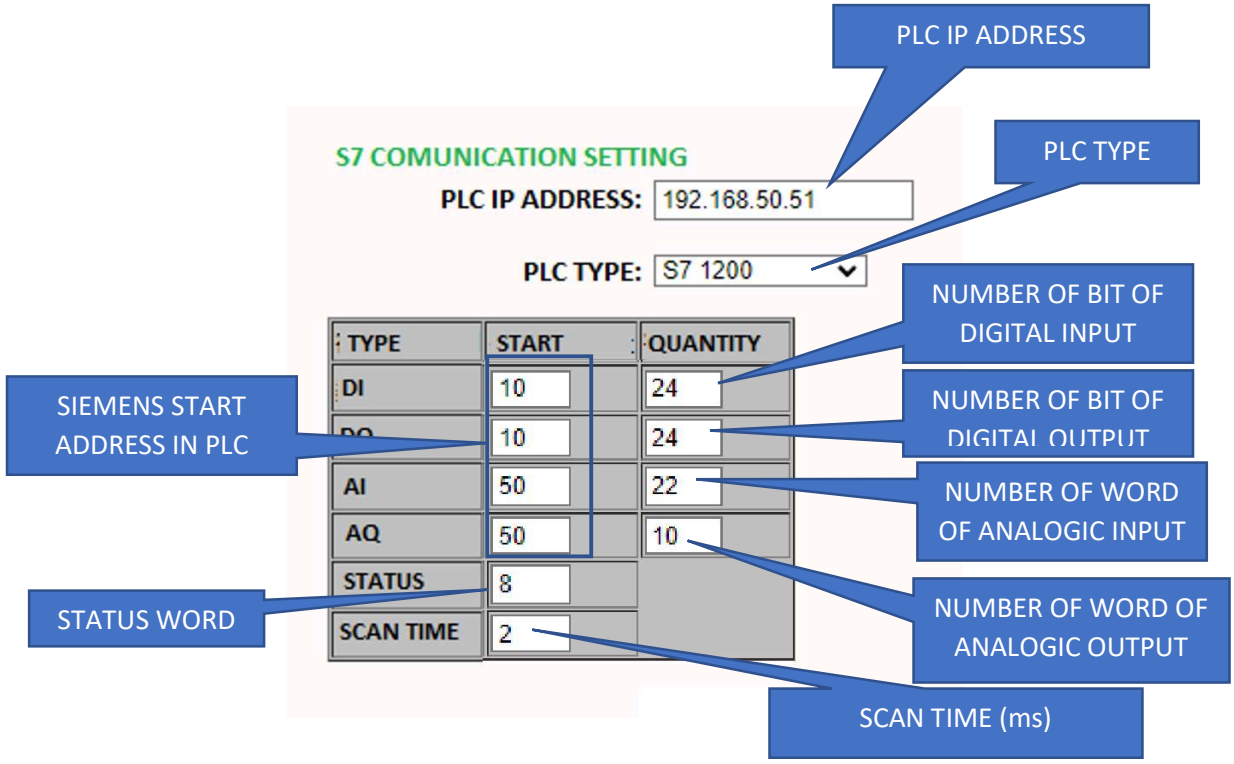


LOGIN

User: MAX Password: MAX


IP ADDRESS
MASK
GATEWAY
FW: 1.4
IP: 192.168.50.58
USER:
MODBUS MASTER IP: 192.168.50.59
MAC: A0:02:4A:51
MASK: 255.255.255.0
PASSWORD:
PORT: 8080
VERSION: 1
GATEWAY: 192.168.50.1
IP ADDRESS OF MASTER MODBUS
TCP PORT OF MASTER MODBUS


COM PORT PARAMETER
MODBUS MASTER TABLE
SPEED
DATA
PARITY
STOP
COM
9.6
8
None
1
NODE
DI
DQ
AI
AQ
2 255 255 255 255
3 255 255 255
4 255 255 255 255
5 255 255
6 255
7 255 255 255 255
SCAN TIM
65535
MODE
TCP转RTU
NUMBER OF WORD IN COMUNICATION
NUMBER OF BIT IN COMUNICATION
SCAN TIME (ms)
COMUNICATION TYPE


PLC IP ADDRESS
PLC TYPE
S7 COMUNICATION SETTING
PLC IP ADDRESS: 192.168.50.51
PLC TYPE: S7 1200
NUMBER OF BIT OF DIGITAL INPUT
SIEMENS START ADDRESS IN PLC
NUMBER OF BIT OF DIGITAL OUTPUT
NUMBER OF WORD OF ANALOGIC INPUT
NUMBER OF WORD OF ANALOGIC OUTPUT
STATUS WORD
SCAN TIME (ms)
TYPE
START
QUANTITY
DI
10
24
DO
10
24
AI
50
22
AQ
50
10
STATUS
8
SCAN TIME
2

EXAMPLE:

MODBUS MASTER TABLE

	SPEED	DATA	PARITY	STOP
COM	9.6	8	None	1
NODE	DI	DQ	AI	AQ
2	16	16	0	0
3	0	0	8	0
4	0	0	0	8
5	0	0	8	0
6	0	0	0	0
7	0	0	0	0
SCAN TIM	10			
MODE	RTU主站			

S7 COMUNICATION SETTING

PLC IP ADDRESS: 192.168.50.51

PLC TYPE: S7 1200

TYPE	START	QUANTITY
DI	10	24
DQ	10	24
AI	50	22
AQ	50	10
STATUS	8	
SCAN TIME	2	

MODBUS TABLE:

NODE 2: MX1-MB-16DIOT (16 DI , 16 DQ)

NODE 3: MX1-MB-8AI (8AI)

NODE 4: MX1-MB-8AO (8AO)

NODE 5: MX1-MB-8PT100 (8AI)

Scan time: 10 ms

Mode: MASTER (this mode is selected for siemens type plc you can move automatically the data directly on the cpu)

S7 COMUNICATION QUANTITY

DI = 24 BIT 8BIT MAIN MODULE + 16BIT NODE 2

DQ = 24 BIT 8BIT MAIN MODULE + 16BIT NODE 2

AI = 6 WORD MAIN MODULE + 8 WORD NODE 3 + 8 WORD NODE 5

AQ= 2 WORD MAIN MODULE + 9 WORD NODE 4

S7 COMUNICATION ON PLC

DIGITAL INPUT FROM E10.0 TO E12.7

DIGITAL OUTPUT FROM A10.0 TO A12.7

ANALOGIC INPUT FROM EW50 TO EW92 (0-4096 INT)

ANALOGIC OUTPUT FROM AW50 TO AW68 (0-4096 INT)