MX1-MB-8PT100

MODBUS DATA ACQUISITION MODULE

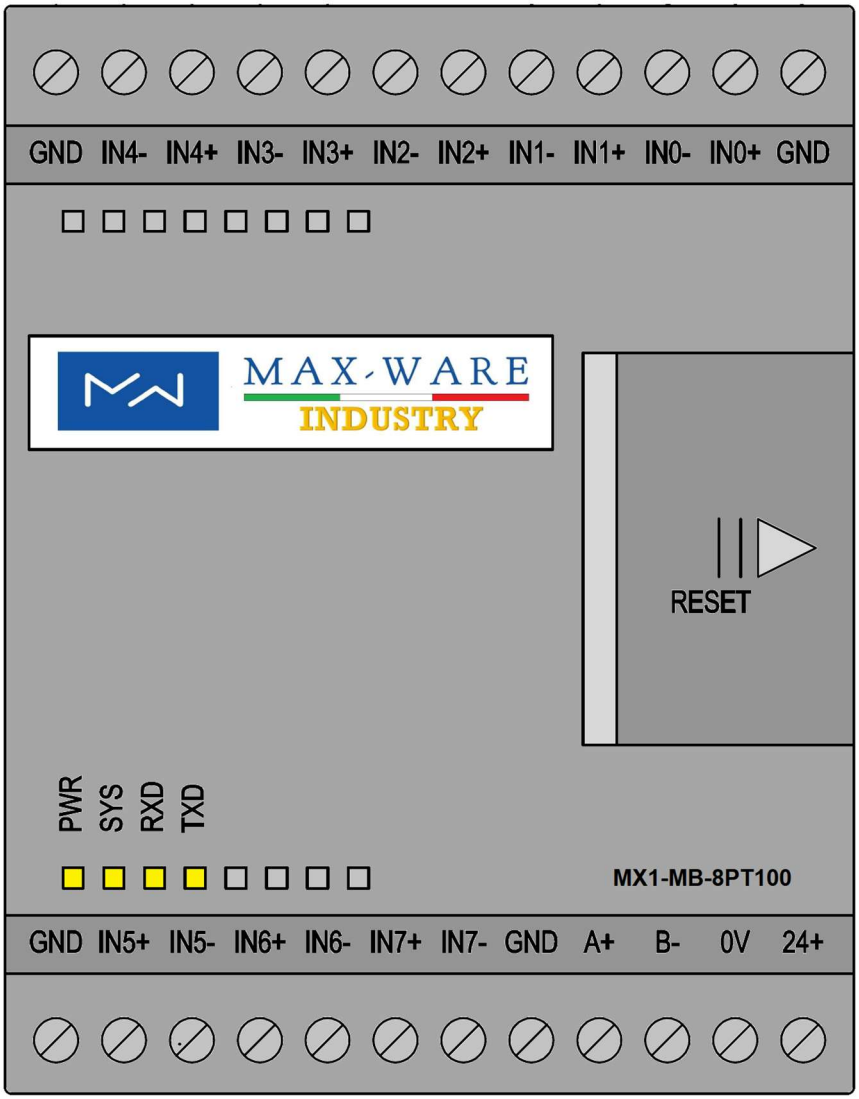


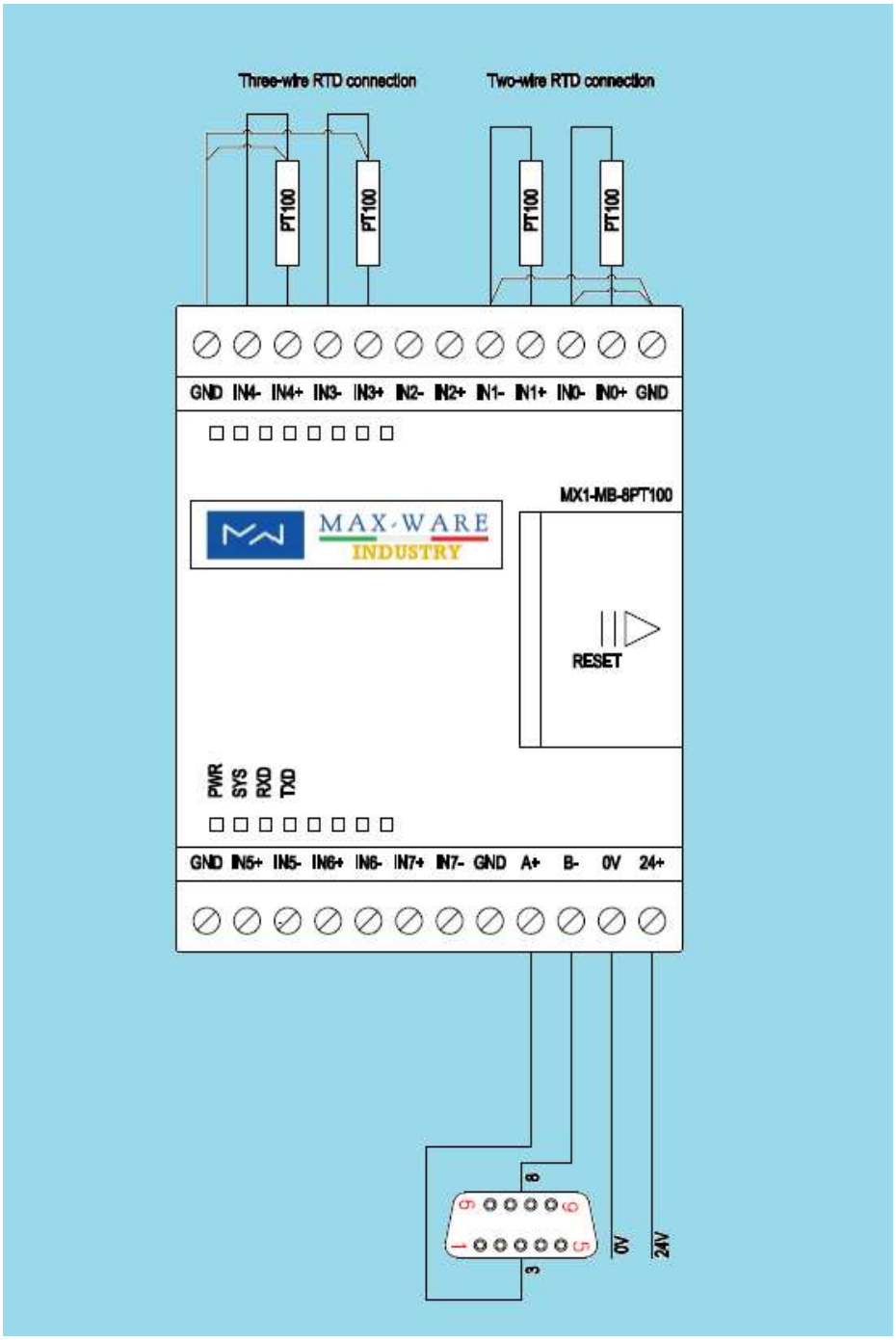
TABLE OF CONTENT

Sommario

1 PRODUCT SPECIFICATION

DIGITAL INPUT	NO
DIGITAL OUTPUT	NO
ANALOGIC INPUT	8 ANALOG INPUT Type: PT100 2-3 wire Measuring range: -50..300°C Conversion accuracy: 16bit (-32768 ..+32768 INT)
ANALOGIC OUTPUT	NO
COM PORT 1	Type: RS485 2 wire A-B Baudrate: 1200-115200 (cfg) Comunication format: Default 8-bit data, 1-bit stop, no check (cfg) Address range: 1-247 Trasmission distance: 1200m Comunication mode: MODBUS RTU slave
COM PORT 2	NO
ETHERNET PORT	NO
POWER	Operating voltage: DC 24V; with anti-reverse protection Power consuption: 2–4 W
TEMPERATURE	-20℃ +70℃
DIMENSIONS	70MM (length) * 80MM (width) * 60MM (height
INSTALLATION MODE	Guide rail DIN

2 WIRING


Three-wire RTD connection
Two-wire RTD connection
PT100
PT100
PT100
PT100
GND IN4- IN4+ IN3- IN3+ IN2- IN2+ IN1- IN1+ IN0- IN0+ GND
MX1-MB-8PT100
MAX-WARE
INDUSTRY
RESET
PWR
SYS
RXD
TXD
GND IN5+ IN5- IN6+ IN6- IN7+ IN7- GND A+ B- 0V 24+
0V
24V

PIN ASSIGNEMENT					
IN0+	Ch1 input +	IN0-	Ch1 input -	24+	24VDC
IN1+	Ch2 input +	IN1-	Ch2 input -	0V	0 VDC
IN2+	Ch3 input +	IN2-	Ch3 input -	B	B MODBUS
IN3+	Ch4 input +	IN3-	Ch4 input -	A	A MODBUS
IN4+	Ch5 input +	IN4-	Ch5 input -	GND	GROUND
IN5+	Ch6 input +	IN5-	Ch6 input -		
IN6+	Ch7 input +	IN6-	Ch7 input -		
IN7+	Ch8 input +	IN7-	Ch8 input -		

4 COMMUNICATION FUNCTION

SERIAL PORT FUNCTION

PORT	SUPPORT FUNCTION	MAX CONNECTION	DESCRIPTION
COM 1	MODBUS RTU SLAVE	1	MODBUS RTU SLAVE

5 RESTORE TO FACTORY DEFAULT

Re-power, effective within 1 minute, press reset button about 2 second after release, the indicator light will flash about 2 second than the reset is successful

Parameter Name	Parameter Default Value
Module Address	1
Baud rate	9600
Serial communication parameters	8 bits of data, 1 bit of stop bit, no parity
Serial port mode	MODBUS RTU SLAVE
Bus error mode	Output reset

6 MODBUS ADDRESS TABLE

NAME	PLC ADDRESS	MODBUS ADDRESS	FUNCTION
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
SYSTEM			
NAME	MODBUS ADDRESS	default	

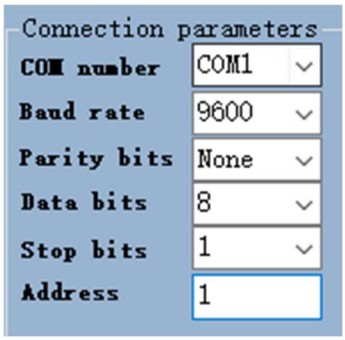
7 CONFIGURATION

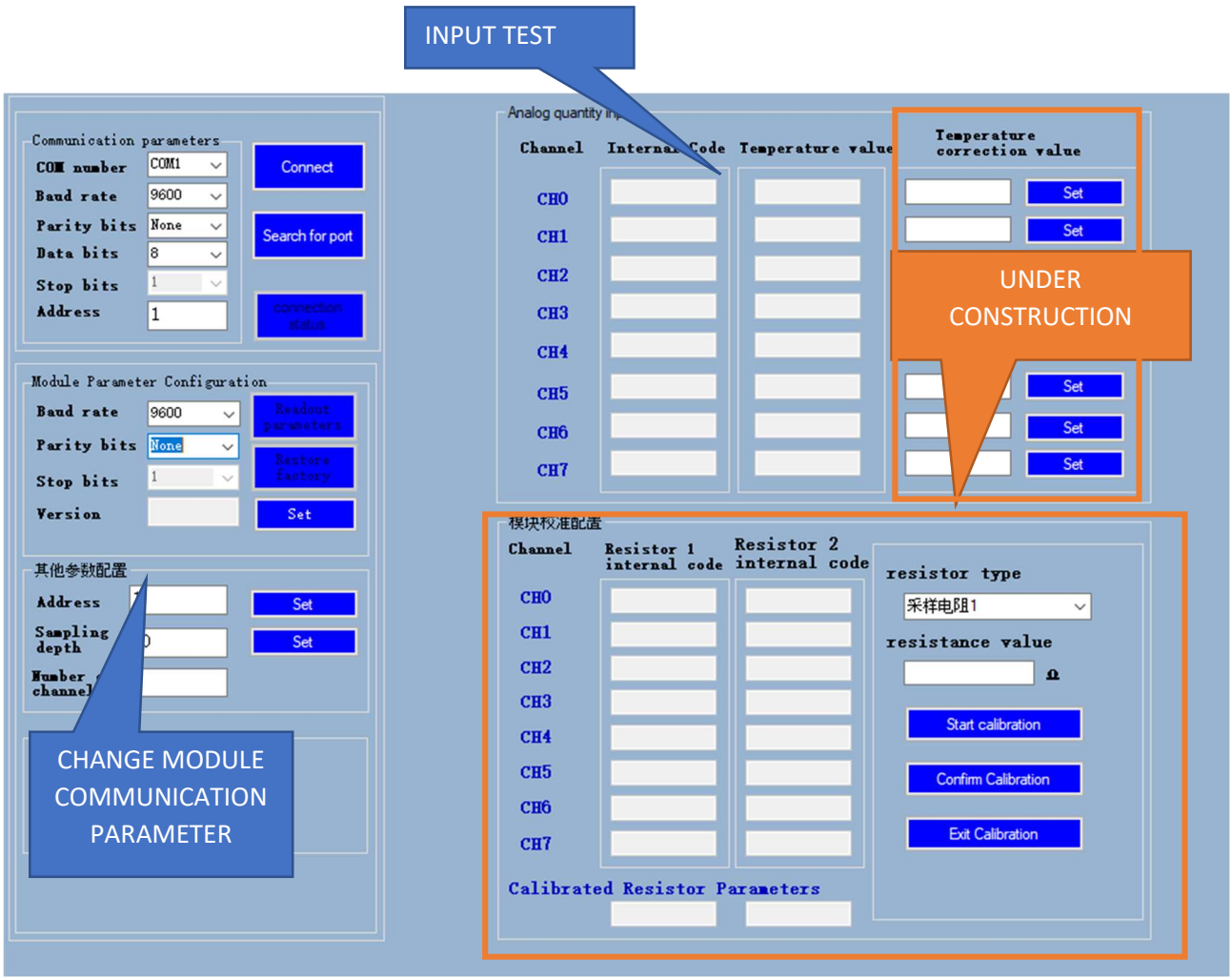
Use 485 interface and software for the configuration.

Software link: DOWNLOAD (www.max-ware.it/DOWNLOAD/MX1-SOFT-CONF.zip)

Interface type: 485-usb interface (MX1-MB-INTERFACE)

Default connection parameter:





After each change a reboot is necessary