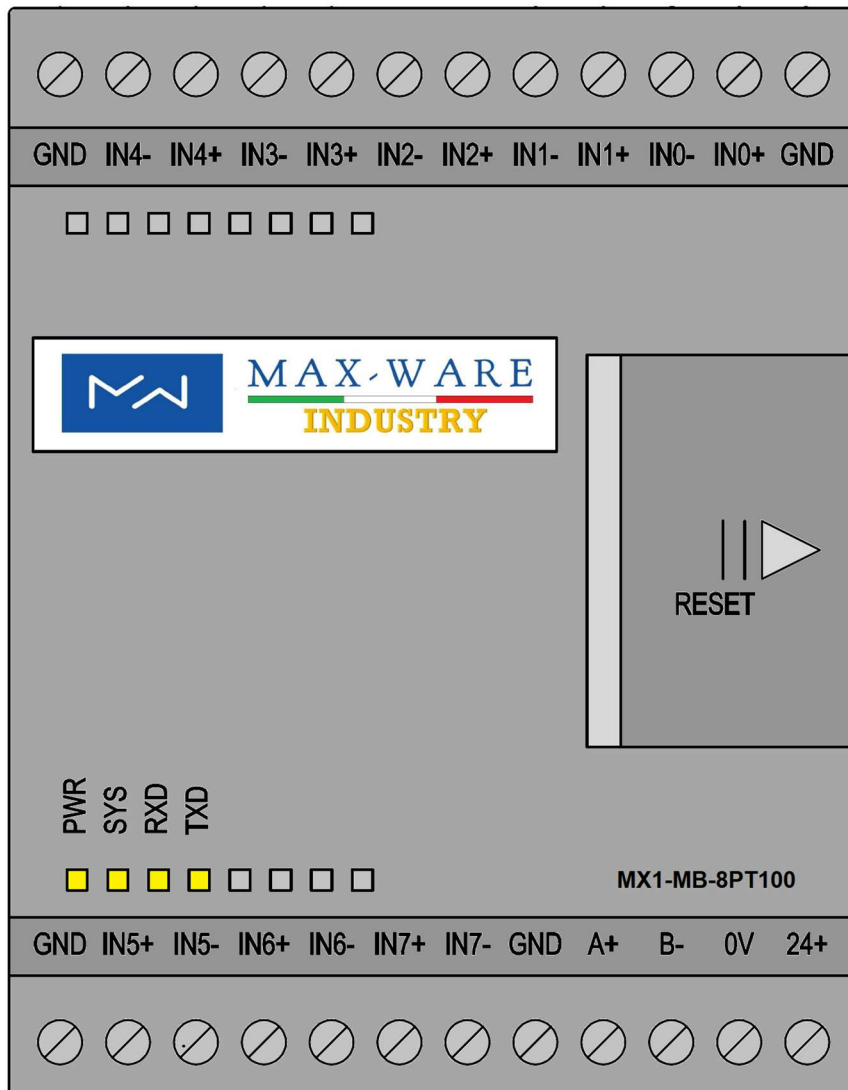




MAX-WARE
INDUSTRY

MX1-MB-8PT100

MODBUS DATA
ACQUISITION MODULE





MAX-WARE
INDUSTRY

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Sommario

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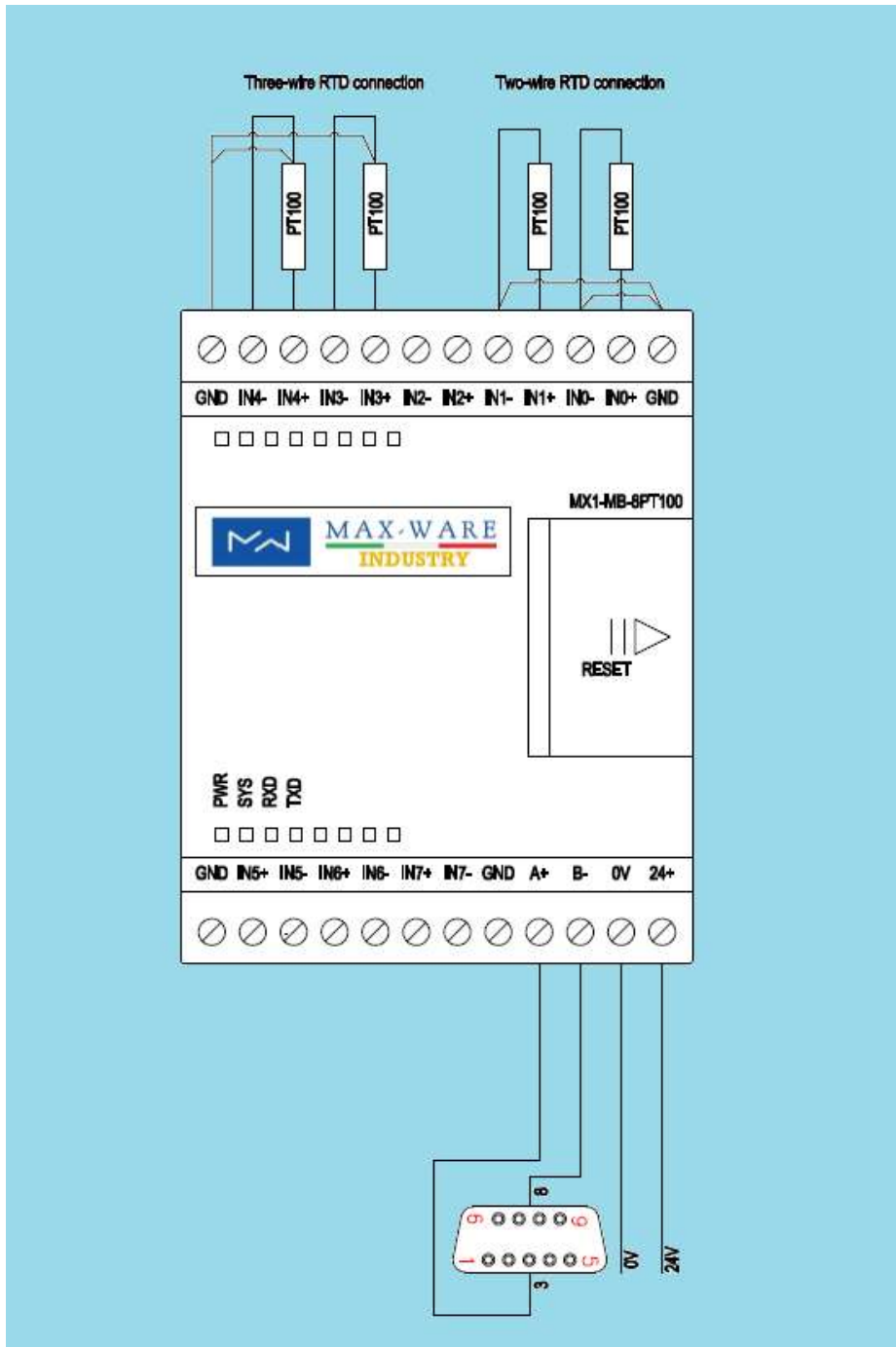


1 PRODUCT SPECIFICATION

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) Communication format: Default 8-bit data, 1-bit stop, no check (cfg) Address range: 1-247 Transmission distance: 1200m Communication mode: MODBUS RTU slave
COM PORT 2	NO
ETHERNET PORT	NO
POWER	Operating voltage: DC 24V; with anti-reverse protection Power consumption: 2-4 W
TEMPERATURE	-20°C +70°C
DIMENSIONS	70MM (length) * 80MM (width) * 60MM (height)
INSTALLATION MODE	Guide rail DIN



2 WIRING





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](http://www.max-ware.it/DOWNLOAD/MX1-SOFT-CONF.zip) (www.max-ware.it/DOWNLOAD/MX1-SOFT-CONF.zip)

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



Default connection parameter:

Connection parameters	
COM number	COM1 ▾
Baud rate	9600 ▾
Parity bits	None ▾
Data bits	8 ▾
Stop bits	1 ▾
Address	1



INPUT TEST

CHANGE MODULE COMMUNICATION PARAMETER

UNDER CONSTRUCTION

The screenshot displays the MAX-WARE software interface with several key sections:

- Communication parameters:** Includes fields for COM number (COM1), Baud rate (9600), Parity bits (None), Data bits (8), Stop bits (1), and Address (1). Buttons for 'Connect', 'Search for port', and 'connection status' are present.
- Module Parameter Configuration:** Includes fields for Baud rate (9600), Parity bits (None), Stop bits (1), and Version. Buttons for 'Readout parameters', 'Restore factory', and 'Set' are present.
- 其他参数配置 (Other parameter configuration):** Includes fields for Address, Sampling depth, and Number of channels. Buttons for 'Set' are present.
- Analog quantity input:** A table with columns for Channel, Internal Code, and Temperature value. Channels CH0 through CH7 are listed.
- Temperature correction value:** A table with columns for Channel and Temperature correction value. Channels CH0 through CH7 are listed. Buttons for 'Set' are present.
- 模块校准配置 (Module calibration configuration):** A table with columns for Channel, Resistor 1 internal code, Resistor 2 internal code, and resistor type. Channels CH0 through CH7 are listed. Buttons for 'Start calibration', 'Confirm Calibration', and 'Exit Calibration' are present.
- Calibrated Resistor Parameters:** A section for displaying calibrated resistor parameters.

After each change a reboot is necessary