



Important: only one temperature sensor type can be used at a time.

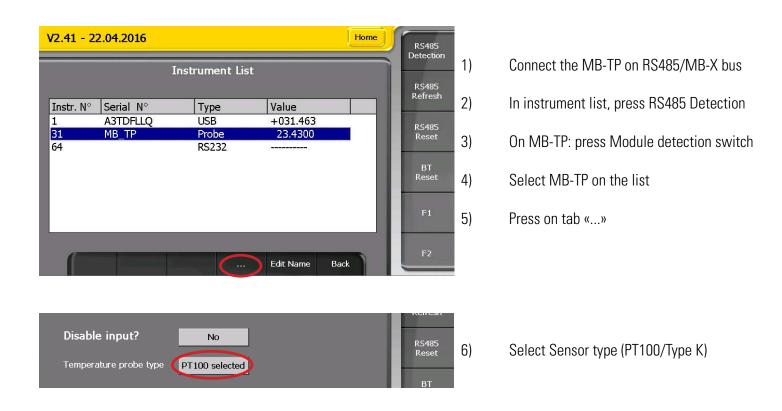
Supported sensors

PT 100/1000: Basic setting: PT100	Type K		
Specifications: Specifications depend on the type of sensor used: PT 100 DIN A Class: ±0.15° + 0.002 x t[°] PT 100 DIN B Class: ±0.30° + 0.005 x t[°] PT 100 2x B Class: ±0.60° + 0.005 x t[°] PT 100 1/3 B+ Class: ±0.10° + 0.0017 x t[°] PT100 1/3 B- Class: ±0.10° + 0.005 x t[°]	Specifications: Specifications depend on the type of sensor used: Standard: ±2.2° Special: ±1.1°		
Converter: Sensor ±0.5°C	Converter: Sensor ±0.25°C		
Connection: Binder M8 serie 768 - 4 poles	Connection: Thermocouple connector with flat pins		
Compatible 2/4 wires			
Recommended wiring: 4 wires wiring	Standard wiring: - Yellow: (+)		
4 wires wiring: -Red / Red: 1-2 -White/White: 3-4 Remark: depending on wire length and connection type,	- Red: (-)		
there may an error in temperature measurement (temperature offset). This error can be corrected by using the preset function on D300S			



Use with D300S

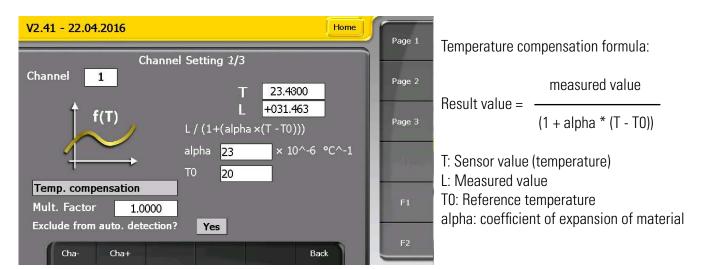
Important: MB-TP is only compatible with firmware from version 2.41 and up.



Use of temperature measurement:

The temperature value may be used and displayed like any other channel input, but can also be used to adjust the measured value based on the coefficient of expansion of the material. Degree [°C] units must be set manually in channel setting.

To avoid automatic channel changes due to temperature variation, do not forget to exclude the temperature channel from automatic detection

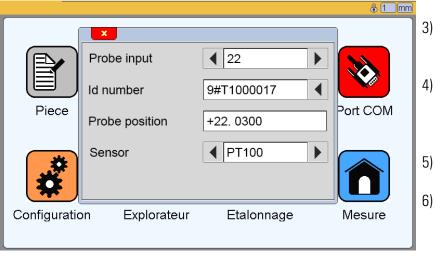




Use with D400S



- Connect the MB-TP on RS485/MB-Bus
- On main screen, select Probes



- Search for the first empty input using right arrow of Probe input
- 4) Press on ID button of MB-TP module (an address beginning with '9#Txxx' will be displayed)
 - Check and select sensor type (PT100 or Type K)
 - Quit menu and introduce your formula using Part-> Characteristic -> Calculation









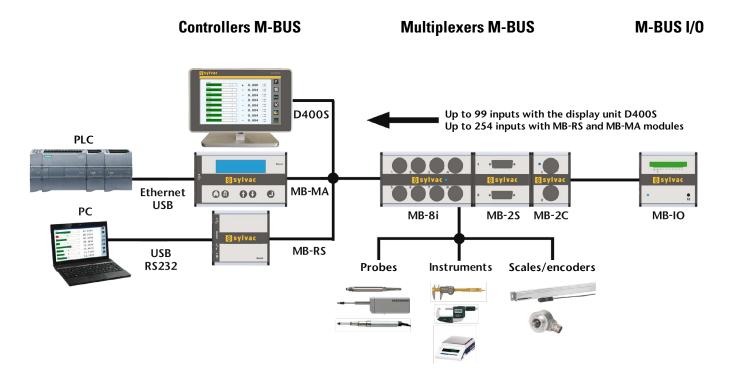


Changes without prior notice

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Connection principle general M-Bus



Description

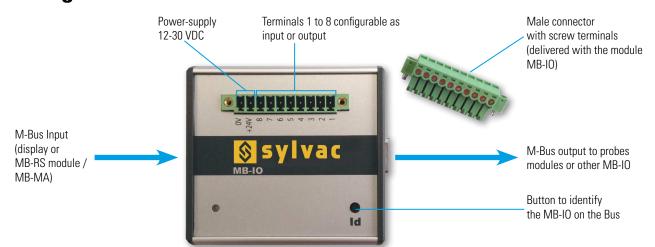
The MB-IO module allows to connect external devices to M-Bus network (actuators, safety, PLC...). 8 inputs/outputs isolated by optocoupler are available.

The outputs are similar to «PNP open collector» type and can be used with an external power-supply from 12 to 30 volts max. The maximal drained stream of each output is 50mA.

The inputs represent a charge of 2.2 Kohms connected to 0 volt.

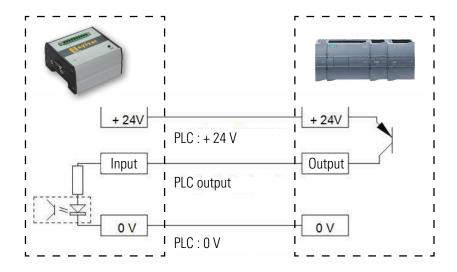


Cabling

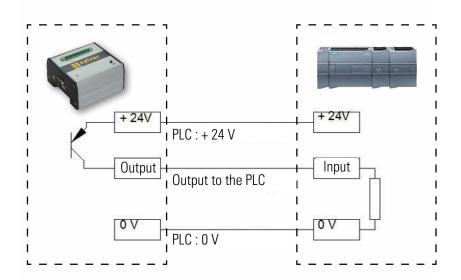




Connection example with a PLC



PLC output connected on an entry from MB-IO module

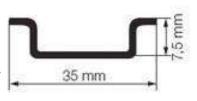


MB-IO module output connected to a PLC input

Mechanical characteristics and assembly

The M-Bus modules are made with a sturdy aluminium profile, declined in several lenghths described in the dimension table below.

All M-Bus modules are attached on a standard DIN rail, width 35mm and heigth 7.5mm.





Module	Length	Height	Width
MB-PS, MB-2C, MB-BA	51mm	40mm (without connectors)	74mm
MB-IO, MB-2M, MB-4M, MB-4C, MB-2S, MB-2T, MB-RS	76mm		
MB-4D, MB-8D	96mm		
MB-8I, MB-MA	126mm		