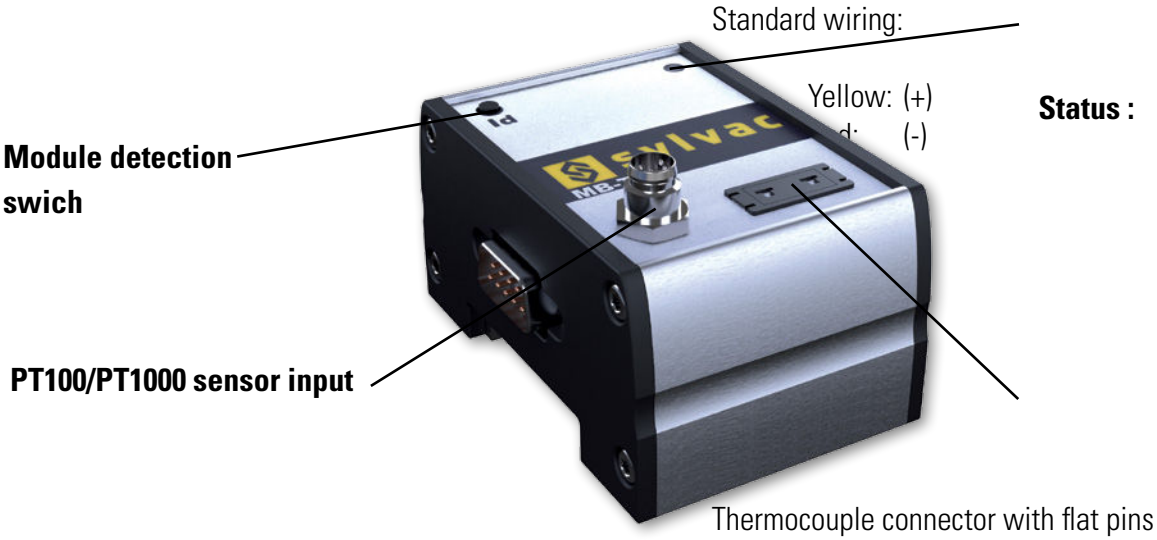
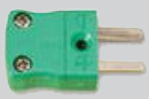
MB-TP Temperature converter



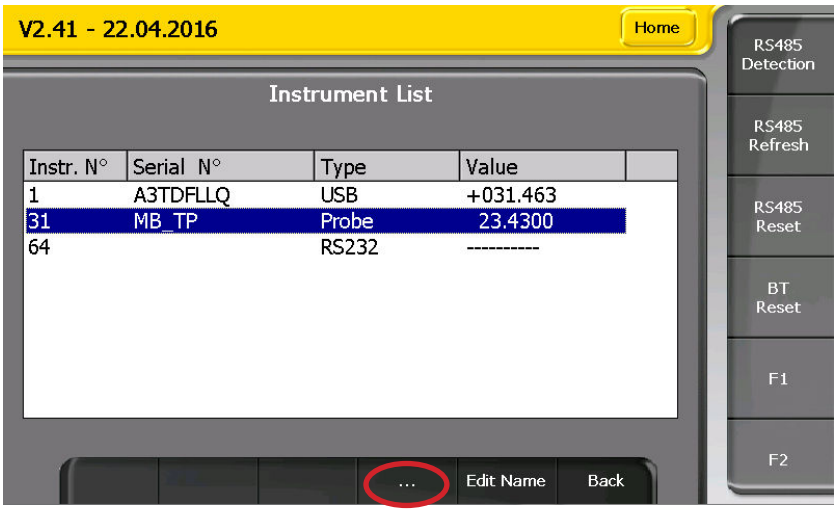
Basic setting : PT100
Important: only one temperature sensor type can be used at a time.

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[°] **Converter:** Sensor ±0.5°C	**Specifications:** Specifications depend on the type of sensor used: Standard: ±2.2° Special: ±1.1° **Converter:** Sensor ±0.25°C
Connection: Binder M8 serie 768 - 4 poles  Compatible 2/4 wires **Recommended wiring: 4 wires wiring** 4 wires wiring: -Red / Red: 1-2 -White/White: 3-4 2 wires wiring: - Red: 2 - White: 3 Remark: depending on wire length and connection type, there may an error in temperature measurement (temperature offset). This error can be corrected by using the preset function on D300S	**Connection :** 

Use with D300S

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



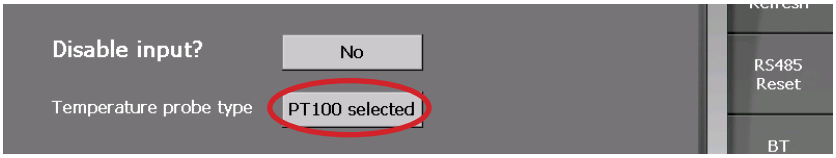
1) Connect the MB-TP on RS485/MB-X bus

2) In instrument list, press RS485 Detection

3) On MB-TP: press Module detection switch

4) Select MB-TP on the list

5) Press on tab «...»

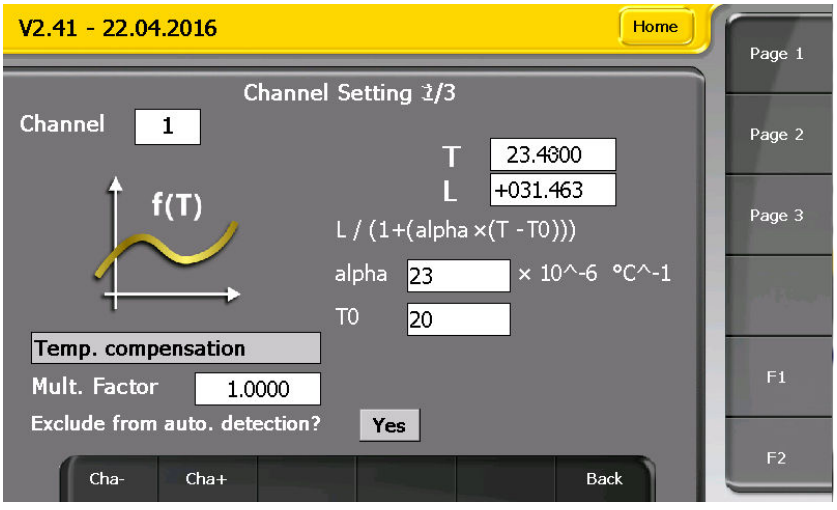


6) Select Sensor type (PT100/Type K)

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

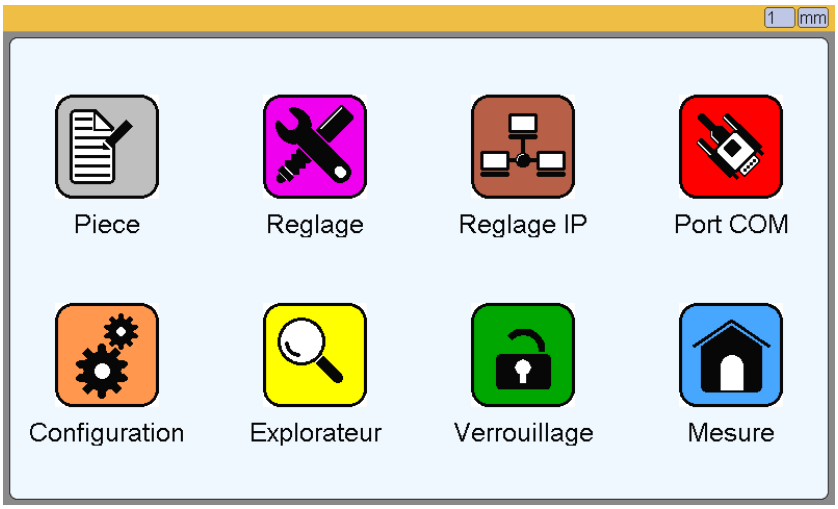


Temperature compensation formula:

$$\text{Result value} = \frac{\text{measured value}}{(1 + \text{alpha} * (T - T0))}$$

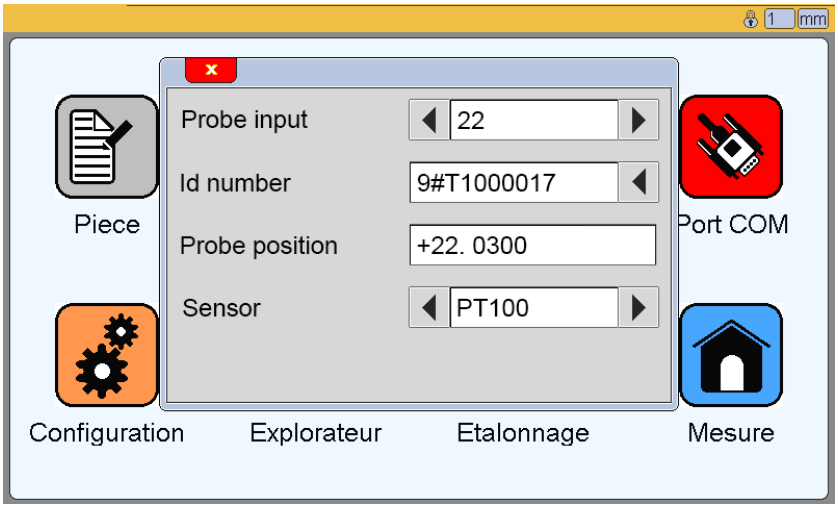
T: Sensor value (temperature)
L: Measured value
T0: Reference temperature
alpha: coefficient of expansion of material

Use with D400S



1) Connect the MB-TP on RS485/MB-Bus

2) On main screen, select Probes

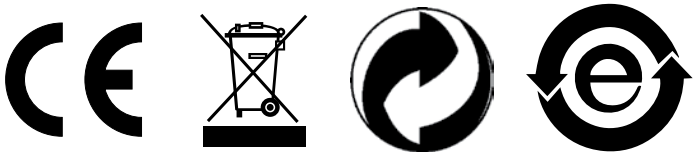


3) Search for the first empty input using right arrow of Probe input

4) Press on ID button of MB-TP module (an address beginning with '9#Txxx' will be displayed)

5) Check and select sensor type (PT100 or Type K)

6) Quit menu and introduce your formula using Part-> Characteristic -> Calculation



Changes without prior notice

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EU DECLARATION OF CONFORMITY (DoC)

We, Sylvac SA, hereby declare under our sole responsibility that the products

Name	M-Bus interface
Description	Multiplexer Unit M-Bus
Part Numbers	804.2102, 804.1204, 804.2108, 804.2122, 804.2114, 804.2118, 804.2130, 804.2140, 804.2160, 804.2170, 804.2190

have been submitted to a conformity assessment and fulfil the essential requirements of the following European directives

2001/95/EC	General product safety
2014/30/EU	EMC
2011/65/EU & 2015/863/EU	RoHS

and complies with the following harmonized standards or other normative documents

EN 61326-1:2013	Electrical equipment for measurement, control and laboratory use – EMC requirements
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Person authorized to compile the technical file and issue the declaration of conformity: Eric Schnyder

Place and date of issue	Yverdon-Les-Bains, September 12, 2019
Name (position)	Eric Schnyder (CEO)
Signature	

