

# M1 – 4-digit digital panel meters in 72x36 mm (BxH) Pt100 2-/3-wire -200°C...850°C / -328°F...1562°F

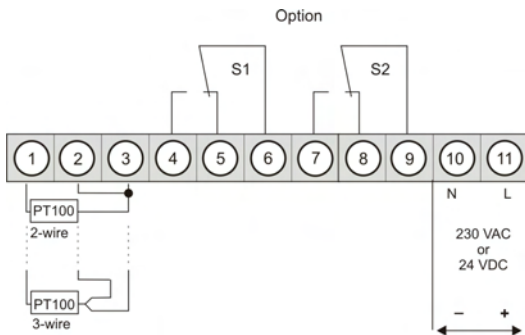
- red display with -1999...9999 digits (optional green, orange or blue displays)
- minimal installation depth: 97 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min-/max-value recording
- displayed in °C or °F
- display flashing at threshold undercut/ exceedance
- navigation keys for the recall of the min/max-values or for threshold value corrections during operation
- impedance matching
- programming interlock via access code
- protection class IP65 at the front
- plug-in terminal
- optional: 2 relay outputs
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on demand: devices for working temperatures of -40°C...80°C or -25°C...60°C



**ORDER NUMBER**  
(without options)

**EUR**

## • Pt100 2-/3-wire -200°C...850°C / -328°F...1562°F



Supply 230 VAC

Supply 24 VDC

**M1-6TR4B.030C.570BD**

**M1-6TR4B.030C.770BD**

## • Product key options

M	1-	6	T	R	4	B.	0	3	0	C.	5	7	0	B	D
M	1-	6	T	R	4	B.	0	3	0	C.	7	7	0	B	D

**EUR**

2	2 relay outputs
1	without keypad, operation on the back
X	Other voltage supplies on demand!
B	Blue
G	Green
Y	Orange

State physical unit by order, e.g. °F!

## • Parameterisation software

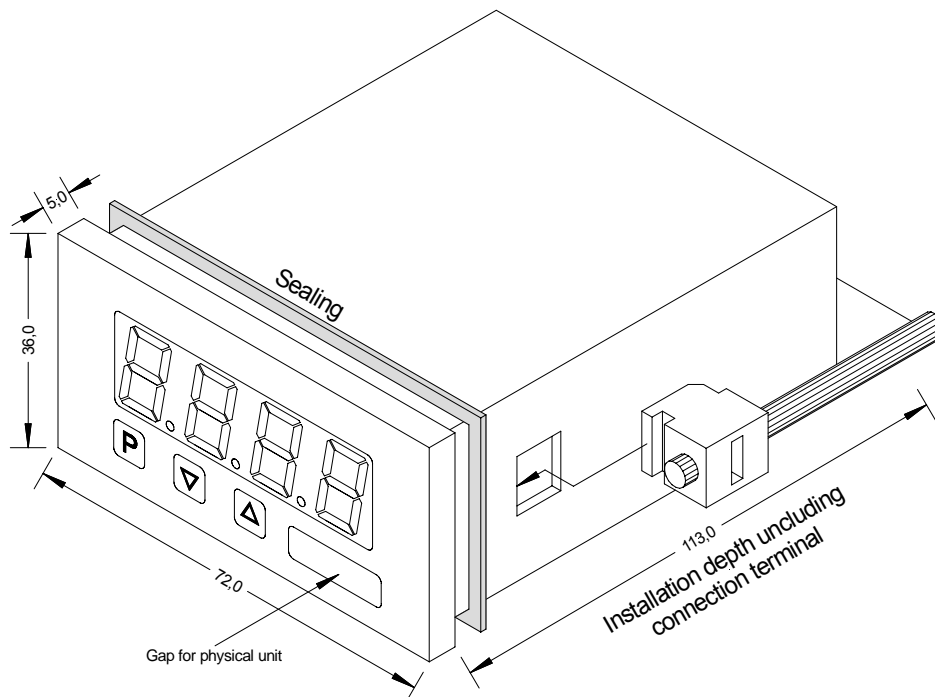
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming is made via an interface on the back.

**PM-TOOL-MUSB4**

## • Technical data

<b>Dimensions</b>	Housing	B72 x H36 x D97 mm, (incl. plug-in terminal D = 113 mm)
	Panel cut-out	68.0 <sup>+0.7</sup> x 33.0 <sup>+0.6</sup> mm
	Fixing	screw elements for wall thickness up to 3 mm
	Housing material	PC Polycarbonate, black
	Sealing material	EPDM, 65 Shore, black
	Protection class	at the front IP65 standard, at the back IP00
	Weight	approx. 200 g
	Connection	plug-in terminal; wire cross section up to 2.5 mm <sup>2</sup>
<b>Display</b>	Display	4-digit
	Digit height	14 mm
	Segment colour	red (Standard), optional available in green, blue and orange
	Range of display	-1999 to 9999
	Threshold values	optical display flashing
	Overflow	horizontal bars at the top
	Underflow	horizontal bars at the bottom
Display time/Meas. time	0.1 to 10.0 seconds	
<b>Measuring input</b>	Measuring range	-200°C...850°C / -328°F...1562°F
	Measuring error	0.1% of measuring range, ± 1 Digit
	Temperature drift	100 ppm/K
	Measuring time	0.1 ... 10.0 seconds
	Measuring principle	U/F-conversion
	Resolution	approx. 0.1°C or 0.1°F
<b>Output</b>	Relay	with change-over contact 250 V / 5 AAC, 30 V / 5 VDC
	Switching cycles	30 * 10 <sup>3</sup> with 5 AAC, 5 ADC ohm resistive load 10 * 10 <sup>6</sup> mechanically
		Diversity according to DIN EN50178 / Characteristics according to DIN EN60255
<b>Power pack</b>	Supply	230 VAC +/- 10 % (max. 3 VA) 24 VDC +/- 10 %, galvanic insulated (max. 1 VA)
<b>Memory</b>	EEPROM	Data life ≥ 100 years at 25°C
<b>Ambient conditions</b>	Working temperature	0 to + 60 °C
	Storing temperature	-20 to + 80°C
	Climatic density	relative humidity 0-85% on years average without dew
<b>CE-sign</b>	Conformity to directive 2004/108/EG	
<b>EMV</b>	EN 61326, EN 55011	
<b>Safety standard</b>	According to low voltage directive 2006/95/EG, EN 61010; EN 60664-1	

## Housing:



• Product key

		M	1-	6	T	R	4	B.	0	3	0	C.	7	7	0	B	D		
<b>Basic type M-line</b>																			<b>Dimension</b>
																			[D] physical unit (free selectable)
<b>Installation depth</b>																			<b>Version</b>
113 mm incl. plug-in terminal																			[B] B
<b>Housing size</b>																			<b>Switching points</b>
72x36x97 mm (BxHxD)																			[0] no switching points
<b>Display type</b>																			[2] 2 relay outputs
Temperature																			<b>Protection class</b>
<b>Display colours</b>																			[1] without keypad, operation on the back
Blue																			[7] IP65 / plug-in terminal
Green																			
Red																			
Orange																			
<b>Number of digits</b>																			<b>Supply voltage</b>
4-digit																			[5] 230 VAC
<b>Digit height</b>																			[7] 24 VDC galv. insulated
14 mm																			<b>Measuring input</b>
<b>Digital input</b>																			[C] Pt100
none																			<b>Analog output</b>
																			[0] none
																			<b>Pt100 type</b>
																			[3] 2-/3-wire