

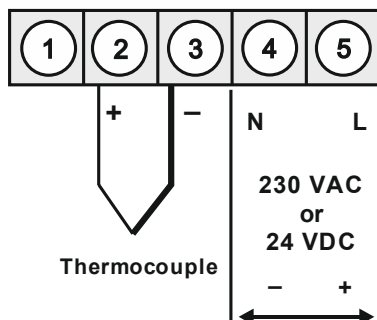
# M1 – 4-digit digital panel meters in 72x36 mm (BxH) Thermocouple type L, J, K, B, S, N, E, T, R

- red display with -1999...9999 digits (optional green, orange or blue displays)
- minimal installation depth: 100 mm with 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 USB adapter
- on request: devices for working temperatures of -40°C...+70°C



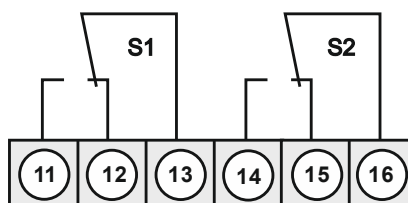
**ORDER NUMBER** **EUR**  
(without options)

## • Thermocouple type L, J, K, B, S, N, E, T, R



Supply 230 VAC **M1-6TR4B.040X.570xD** **206.50**  
Supply 24 VDC **M1-6TR4B.040X.770xD** **217.10**

### Option:



## • Product key options

M	1-	6	T	R	4	B.	0	4	0	X.	5	7	0	x	D	EUR
M	1-	6	T	R	4	B.	0	4	0	X.	7	7	0	x	D	
											D	Dimension/physical unit, customer-specific settings				20.00
											2	2 relay outputs				31.80
											1	without keypad, operation via PC software PM-TOOL				10.60
											X	Other voltage supplies on request!				
											B	Blue				35.00
											G	Green				10.10
											Y	Orange				10.10

State physical unit by order, e.g. m/min!

## • Parameterisation software

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

**PM-TOOL-MUSB4** **94.30**

## • Technical data

<b>Dimensions</b>	Housing	B72 x H36 x D71 mm, (incl. plug-in terminal D = 100 mm)	
	Panel cut-out	68.0 <sup>+0.7</sup> x 32.0 <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	Type L	-200...900°C
		Type J	-210...1200°C
		Type K	-270...1372°C
		Type B	80...1820°C
		Type S	-50...1768°C
		Type N	-270...1300°C
		Type E	-270...1000°C
		Type T	-270...400°C
	Type R	-50...1768°C	
	Measuring error	2 K, ± 1 Digit	
	Temperature drift	100 ppm/K	
	Measuring time	0.1 ... 10.0 seconds	
	Measuring principle	U/F-conversion	
Resolution	0.1°C		
Characteristic line error	<±1 kΩ		
Reference junction	Thermistor		
<b>Output</b>	2x relay outputs with normally open contact	contact voltage	30 VDC/AC, max. 2 A resistive load
		operating life	< 30 mV / < 10 mA – minimum 2.5x10 <sup>6</sup>
			30 VDC / 1 A – minimum 5x10 <sup>5</sup> 30 VDC / 2 A – minimum 1x10 <sup>5</sup>
<b>Power pack</b>	Supply	230 VAC	±10% (max. 3 VA)
		24 VDC	±10%, galvanic isolated (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 2014/30/EU		
<b>EMV</b>	EN 61326, EN 55011		
<b>Safety standard</b>	according to low voltage directive 2014/35/EU, EN 61010; EN 60664-1		

## Housing:

