

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

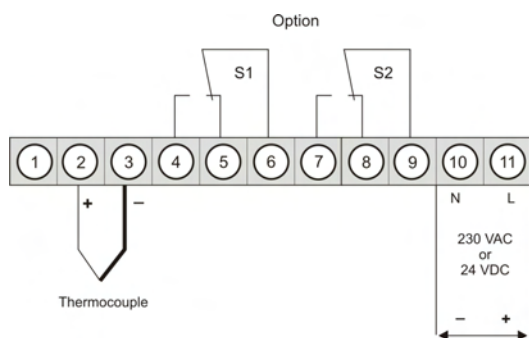
- red display with -1999...9999 digits (optional green, orange or blue displays)
- minimal installation depth: 97 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min-/max-value recording
- displayed in °C or °F
- display flashing at threshold undercut/ 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

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



Supply 230 VAC

M1-6TR4B.040X.570BD

Supply 24 VDC

M1-6TR4B.040X.770BD

• Product key options

M	1-	6	T	R	4	B.	0	4	0	X.	5	7	0	B	D
M	1-	6	T	R	4	B.	0	4	0	X.	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. m/min!

• 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

Dimensions	Housing	B72 x H36 x D97 mm, (incl. plug-in terminal D = 113 mm)	
	Panel cut-out	68.0 ^{+0.7} x 33.0 ^{+0.6} 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 ²	
Display	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		
Measuring input	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	
	Output	Relay	with change-over contact 250 V / 5 AAC, 30 V / 5 VDC
	Switching cycles	30 * 10 ³ with 5 AAC, 5 ADC ohm resistive load 10 * 10 ⁶ mechanically Diversity according to DIN EN50178 / Characteristics according to DIN EN60255	
Power pack	Supply	230 VAC +/- 10 % (max. 3 VA) 24 VDC +/- 10 %, galvanic insulated (max. 1 VA)	
	EEPROM	Data life ≥ 100 years at 25°C	
Ambient conditions	Working temperature	0 to + 60 °C	
	Storing temperature	-20 to + 80°C	
	Climatic density	relative humidity 0-85% on years average without dew	
CE-sign	Conformity to directive 2004/108/EG		
EMV	EN 61326, EN 55011		
Safety standard	According to low voltage directive 2006/95/EG, EN 61010; EN 60664-1		

Housing:

