

M1 – 4-digit digital panel meter in 48x24 mm (BxH) Thermocouple type B, E, J, K, L, N, R, S, T

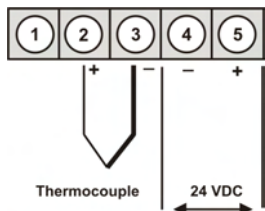
- red display of -1999...9999 digits (optional green, orange or blue display)
- minimal installation depth: 27 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min-/max-value recording
- displayed in °C or °F
- display flashing at threshold exceedance / undercut
- navigation keys for the recall of min/max values or for limit value corrections during operation
- impedance matching
- programming interlock via access code
- protection class IP65 at the front
- plug-in terminal
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on demand: devices for working temperatures of -40°C... 80°C or of -25°C...60°C



ORDERING NUMBER
(without options)

EUR

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



Supply 24 VDC

M1-7TR4A.040X.770CD

• Product key options

M 1- 7 T R 4 A. 0 4 0 X. 7 7 0 C D

EUR

1	Without keypad, operation on the back
B	Blue
G	Green
Y	Orange

State physical unit in 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-MUSB12

• **Technical data**

Dimension	Housing	B48xH24xD27 mm (including plug-in terminal D= 54 mm)	
	Panel cut-out	45.0 ^{+0.8} x 22.2 ^{+0.6} mm	
	Fixing	screw elements for insulation thickness up to 3 mm	
	Housing material	PC Polycarbonate, black	
	Sealing material	EPDM, 65 Shore, black	
	Protection class	at the front IP65 standard, back side IP00	
	Weight	approx. 100 g	
Display	Connection	plug-in terminal; line cross-section up to 2.5 mm ²	
	Display	4-digit	
	Digit height	10 mm	
	Segment colour	red (standard), optional available in green, blue and orange	
	Display range	-1999 to 9999	
	Setpoints	optical display flashing	
	Overflow	horizontal bars at the top	
Measuring input	Underflow	horizontal bars at the bottom	
	Display time/ Measuring time	0.1 to 10.0 seconds	
	Measuring range	Type L	-200°C...900°C
		Type J	-210°C...1200°C
		Type K	-270°C...1372°C
		Type B	80°C...1820°C
		Type S	-50°C...1768°C
		Type N	-270°C...1300°C
		Type E	-270°C...1000°C
		Type T	-270°C...400°C
		Type R	-50°C...1768°C
		Measuring fault	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 curve fault	< ± 1 kΩ		
Reference junction	Thermistor		
Power pack	Supply	24 VDC +/- 10 %, galvanic insulated (max. 1 VA)	
	Memory	EEPROM	
Ambient conditions	Data life ≥ 100 years at 25°C		
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:

