

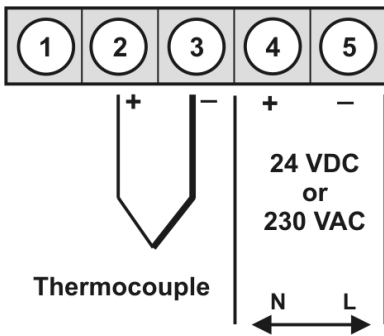
M1 – 4-digit digital panel meter in 96x24 mm (BxH) Thermocouple type B, E, J, K, L, N, R, S, T

- red display of -1999...9999 digits (optional green, orange or blue display)
- minimal installation depth: 57 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 / undershooting
- navigation keys for the recall of min/max-values or 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 USB adapter
- on request: devices for working temperatures of -40°C...+70°C



ORDER NUMBER **EUR**
(without options)

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



Supply 230 VDC

M1-3TR4B.040X.570xD **190.60**

Supply 24 VDC

M1-3TR4B.040X.770xD **201.20**

• Order key options

M	1-	3	T	R	4	B.	0	4	0	X.	5	7	0	x	D	EUR
M	1-	3	T	R	4	B.	0	4	0	X.	7	7	0	x	D	
											D	Dimension/physical unit, customer-specific settings				20.00
											1	without keypad, operation via PM-TOOL				10.60
											X	Other voltage supplies on request!				
											B	Blue				35.00
											G	Green				10.10
											Y	Orange				10.10

Please state physical unit in order, e.g. °F.

• Parameterisation software

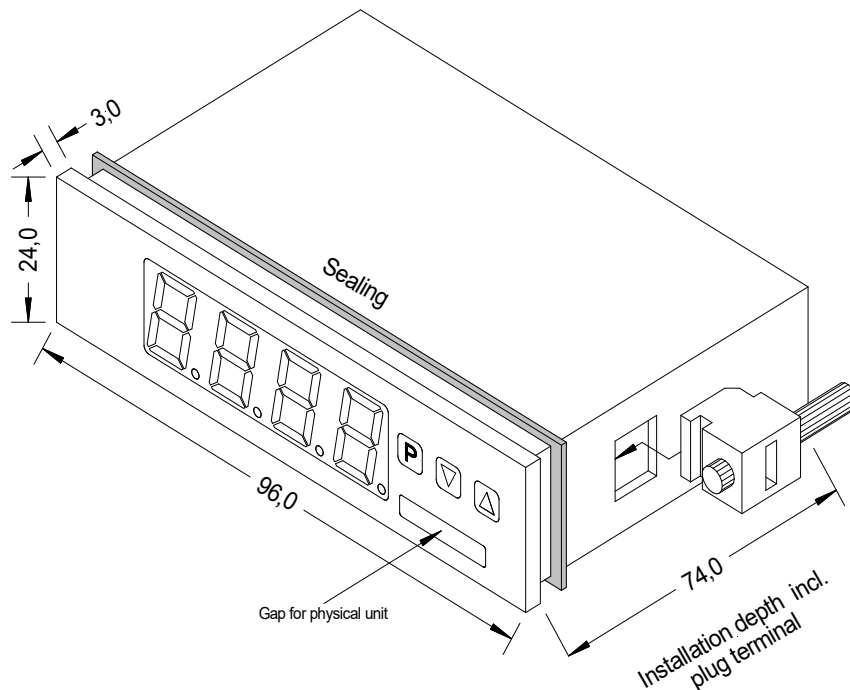
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. USB-adapter. Programming happens via an interface on the back.

PM-TOOL-MUSB4 **94.30**

• Technical data

Dimension	Housing	B96 x H24 x D57 mm (including plug-in terminal, D= 74 mm)	
	Panel cut-out	92.0 ^{+0.8} x 22.2 ^{+0.3} 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. 150 g	
Display	Connection	plug-in terminal; line cross-section up to 2.5 mm ²	
	Display	4-digit	
	Digit height	14 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	230 VAC ±10 % (max. 3 VA)	
		24 VDC ±10 %, galvanic isolated (max. 1 VA)	
Memory	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 2014/30/EU		
EMV	EN 61326, EN 55011		
Safety standard	According to low voltage directive 2014/35/EU, EN 61010; EN 60664-1		

Housing:



• Ordering code M1

	M	1-	3	T	R	4	B.	0	4	0	X.	7	7	0	x	D	
Basic type M-Line																	Dimension D physical unit
Installation depth 74 mm incl. plug-in terminal			1														Version x internal version
Housing size 96 x 24 x 57 mm			3														Switching points 0 no switching points
Display type Temperature				T													Protection class 1 without keypad, operation via PM-TOOL 7 IP65 / plug-in terminal
Display colours Blue Green Red Orange					B G R Y												Supply voltage 5 230 VAC 7 24 VDC galv. isolated
Number of digits 4-digit						4											Measuring input X Type B, E, J, K, L, N, R, S, T
Digit height 14 mm							B										Analog output 0 without
Interface without								0									Sensor supply 0 without
																	Temperature device 4 Thermocouple