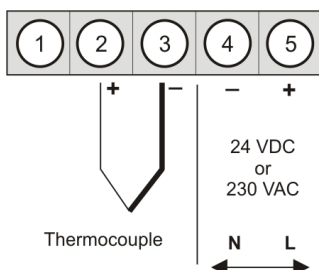


M1 – 4-digit digital panel meter in 96x48 mm (BxH) Thermocouple type B, E, J, K, L, N, R, S, T

- red display of -1999...9999 digits (optional green, orange or blue display)
- minimal installation depth: 25 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



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



Supply 230 VAC

Supply 24 VDC

ORDER NUMBER
(without options)

EUR

M1-1TR4B.040X.570xD 165.20

M1-1TR4B.040X.770xD 177.90

• Product key options

M	1-	1	T	R	4	B.	0	4	0	X.	5	7	0	x	D	EUR
M	1-	1	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 PC software 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.

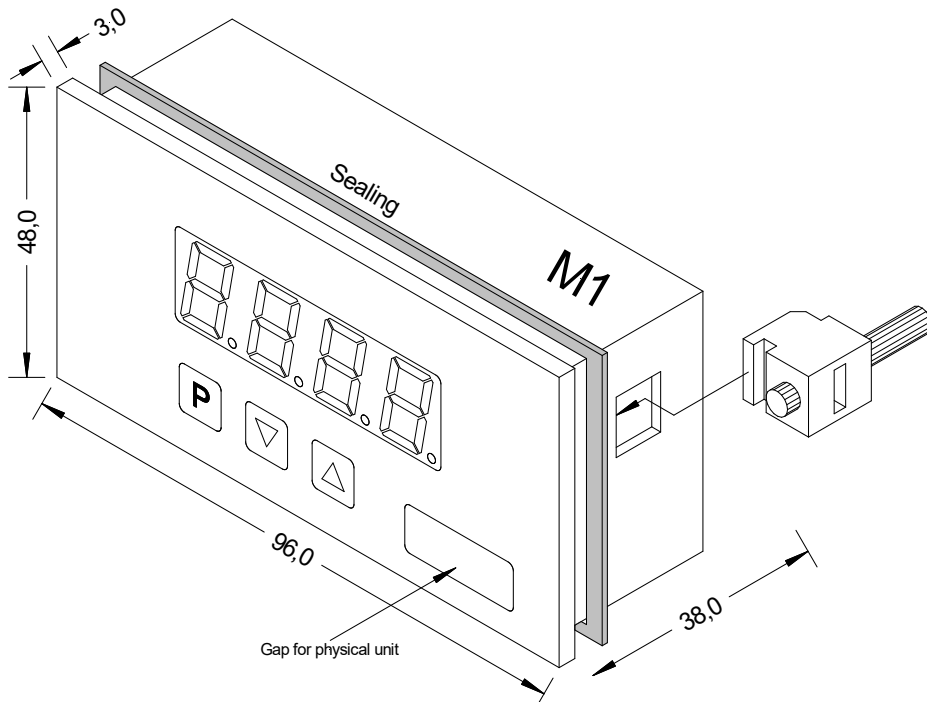
PM-TOOL-MUSB4

94.30

• Technical data

Dimension	Housing	B96xH48xD25 mm (including plug-in terminal D= 38 mm)
	Panel cut-out	92.0 ^{+0.8} x 45.0 ^{+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
	Connection	plug-in terminal; line 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
	Display range	-1999 to 9999
	Setpoints	optical display flashing
	Overflow	horizontal bars at the top
	Underflow	horizontal bars at the bottom
	Display time/ Measuring time	0.1 to 10.0 seconds
Measuring input	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 K
	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

	M	1-	1	T	R	4	B.	0	4	0	X.	7	7	0	x	D		
Basic type M-Line																		Dimension
																		<input type="checkbox"/> D physical unit
Installation depth																		Version
38 mm incl. plug-in terminal			<input type="checkbox"/> 1															<input type="checkbox"/> x internal version
Housing size																		Switching points
96x48x25 mm (BxHxD)			<input type="checkbox"/> 1															<input type="checkbox"/> 0 no switching points
Display type																		Protection class
Temperature				<input type="checkbox"/> T														<input type="checkbox"/> 1 without keypad, operation via PM-TOOL
Display colours																		<input type="checkbox"/> 7 IP65 / plug-in terminal
Blue					<input type="checkbox"/> B													Supply voltage
Green					<input type="checkbox"/> G													<input type="checkbox"/> 5 230 VAC
Red					<input type="checkbox"/> R													<input type="checkbox"/> 7 24 VDC galv. isolated
Orange					<input type="checkbox"/> Y													Measuring input
Number of digits																		<input type="checkbox"/> X Type B, E, J, K, L, N, R, S, T (selectable)
4-digit																		Analog output
Digit height																		<input type="checkbox"/> 0 without
14 mm					<input type="checkbox"/> B													Temperature devices
Digital input																		<input type="checkbox"/> 4 Thermocouple
without																		