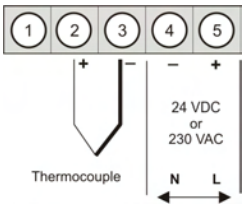
M1 – 4-digit digital panel meter in 96x48 mm (BxH)
Thermocouple type B, E, J, K, L, N, R, S, T

- 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 CD & USB adapter
- on demand: devices for working temperatures of -25°C…60°C or -40°C…80°C

	ORDER NUMBER (without options)	EUR

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



Supply 230 VAC	M1-1TR4B.040X.570CD	
Supply 24 VDC	M1-1TR4B.040X.770CD	

• Product key options

M	1-	1	T	R	4	B.	0	4	0	X.	5	7	0	C	D	EUR
M	1-	1	T	R	4	B.	0	4	0	X.	7	7	0	C	D	

1	Without keypad, operation on the back via interface
X	Other voltage supplies on demand!
B	Blue
G	Green
Y	Orange

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

• Parameterisation software

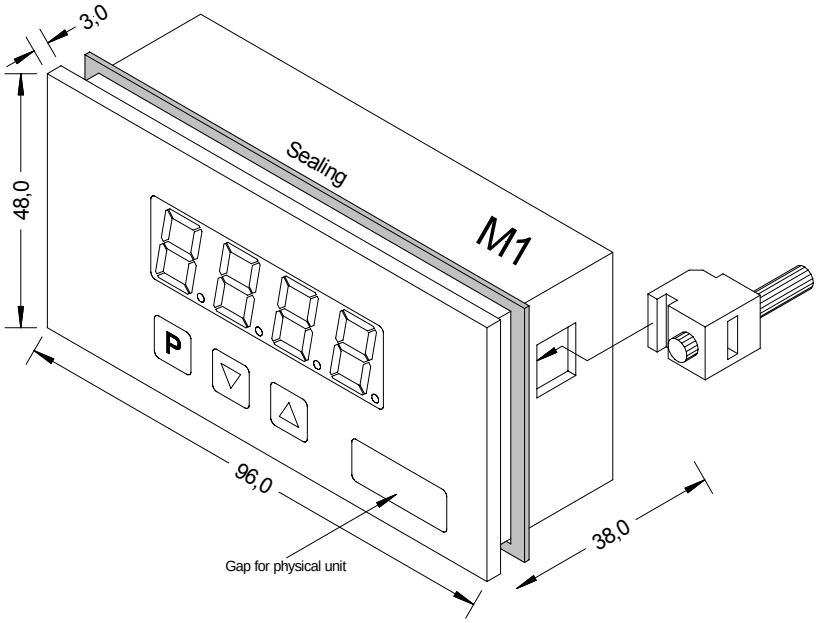
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming is made via an interface on the back.

PM-TOOL-MUSB4

• 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 kΩ
	Reference junction	Thermistor
Power pack	Supply	230 VAC +/- 10 % (max. 3 VA) 24 VDC +/- 10 %, galvanic insulated (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 2004/108/EG	
EMV	EN 61326, EN 55011	
Safety standard	According to low voltage directive 2006/95/EG, EN 61010; EN 60664-1	

Housing:



• Ordering code

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

Basic type M-Line

Installation depth

38 mm incl. plug-in terminal: 1

Housing size

96x48x25 mm (BxHxD): 1

Display type

Temperature: T

Display colours

Blue: B
Green: G
Red: R
Orange: Y

Number of digits

4-digit: 4

Digit height

14 mm: B

Digital input

without: 0

Dimension

D: physical unit (free selectable)

Version

C: C

Switching points

0: no switching points

Protection class

1: without keypad, operation on the back
7: IP65 / plug-in terminal

Supply voltage

5: 230 VAC
7: 24 VDC galv. insulated

Measuring input

X: Type B, E, J, K, L, N, R, S, T (selectable)

Analog output

0: without

Temperature devices

4: Thermocouple