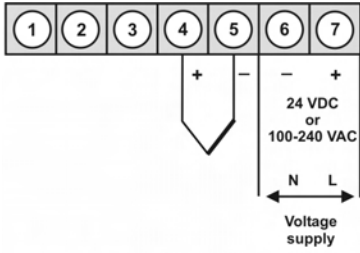




M3 – 5-digit digital panel meter in 48x24 mm (BxH) Thermocouple type L, J, K, B, S, N, E, T, R

- red display from -19999...99999 Digits (optional green, orange or blue display)
- installation depth: 90 mm without plug-in terminal
- multi voltage power supply unit 100-240 VAC
- adjustment via factory default or directly on the sensor signal
- min-/max-memory with adjustable permanent display
- display flashing at threshold exceedance / threshold undershooting
- flexible alarm system with adjustable delay times
- brightness control via parameter or front keys
- programming interlock via access code
- protection class IP65 at the front
- pluggable screw terminal
- optional: 2 PhotoMos-outputs
- optional: 1 independently scalable analog output
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on demand: devices for working temperatures of -20°C...50°C or -40°C...70°C without condensation

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



Supply 24 VDC

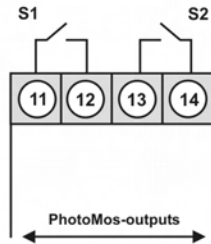
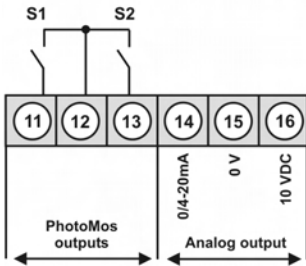
M3-7TR5A.040X.770BD

Supply 100-240 VAC, DC± 10%

M3-7TR5A.040X.S70BD

Options: device with a supply of 24 VDC

Options: device with a supply of 100-240 VAC



• Product key options: devices with a supply of 24 VDC

M	3-	7	T	R	5	A.	0	4	0	X.	7	7	0	B	D	EUR
															2	2 PhotoMos outputs
															1	Without keypad, operation on the back side
															X	Analog output 0/4-20 mA, 0-10 VDC galv. insulated
															B	Blue
															G	Green
															Y	Orange

• Product key options: devices with a supply of 100-240 VAC

M	3-	7	T	R	5	A.	0	4	0	X.	S	7	0	B	D	EUR
															2	2 PhotoMos outputs
															1	Without keypad, operation on the back
															B	Blue
															G	Green
															Y	Orange

Please state physical unit on demand in your order, e.g. °C.

• Parameterisation software

ORDER NUMBER

EUR

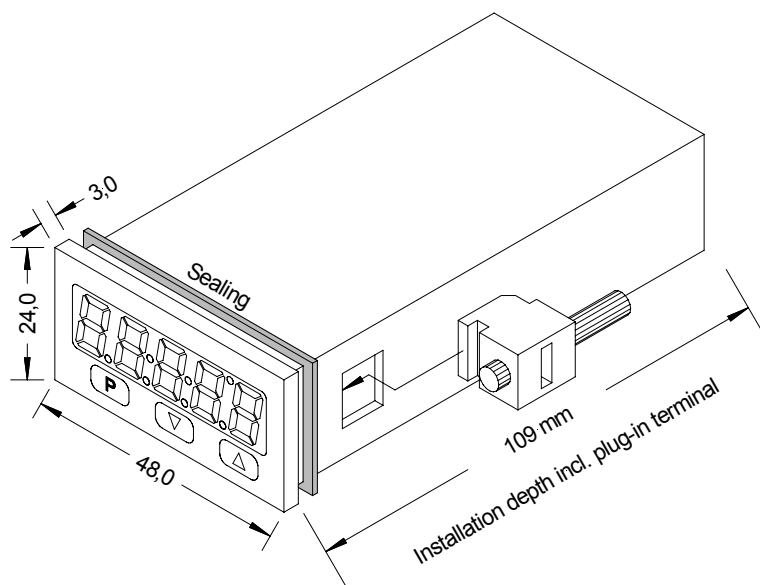
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming is made via an interface on the back.

PM-TOOL-MUSB4

• **Technical data**

Housing dimension	Housing	B48 x H24 x T90 mm, (with plug-in terminal D= 109 mm)	
	Panel cut-out	45.0 ^{+0.6} x 22.2 ^{+0.3} mm	
	Fixing	screw elements for wall thicknesses 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	5-digit	
	Digit height	10 mm	
	Segment colour	red (Standard), optional available in green, orange and blue	
	Display range	-19999 to 99999	
	Limit values	optical display flashing	
	Overflow	horizontal bars at the top	
	Underflow	horizontal bars at the bottom	
	Display 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 fault	2 K, ± 1 Digit	
	Temperature drift	100 ppm/K	
Measuring time	0.1 ... 10.0 seconds		
Mesuring principle	U/F-conversion		
Resolution	0.1°C		
Characteristic line fault	<±1 K		
Reference junction	Thermistor		
Output	PhotoMos	Closer contacts: 30 VDC/AC, 0.4 A	
	Analog output	0-10 VDC / burden ≥ 10 kΩ, 0/4-20 mA / burden ≤ 500 Ω, 16 Bit	
Power pack	Supply	100-240 VAC 50/60 Hz / DC ± 10% (max. 5 VA) 24 VDC ± 10 %, galvanic insulated (max. 4 VA)	
Memory	EEPROM	Data life ≥ 100 years at 25°C	
Ambient conditions	Working temperature	0 to + 50 °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:



• Order key

	M	3-	7	T	R	5	A	0	4	0	X	7	7	0	B	D
Standard type M-Line																
Installation depth 109 mm (incl. plug-in terminal)																
Housing size 48x24x90 mm (BxHxD)																
Display type Temperature																
Display colours Blue Green Red Orange																
Number of digits 5-digit																
Digit height 10 mm																
Digital input without																
Dimension physical unit																
Version B																
Switching points no switching point 2 PhotoMos-outputs																
Protection class without keypad, operation on the back IP65 / pluggable terminal																
Supply voltage 24 VDC galv. insulated 100-240 VAC																
Measuring input Thermocouple																
Analog output without 0-10 VDC, 0/4-20 mA																
Thermocouple Type L, J, K, B, S, N, E, T, R																