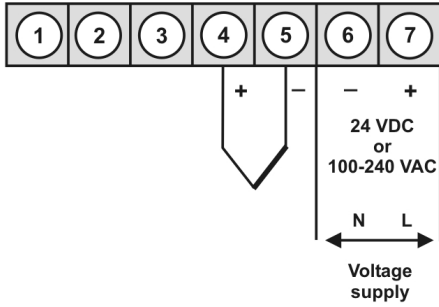




### **M3 – 5-digit digital panel meter in 48x24 mm (BxH) Thermocouple type L, J, K, B, S, N, E, T, R**

- 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 USB adapter
- on request: 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**



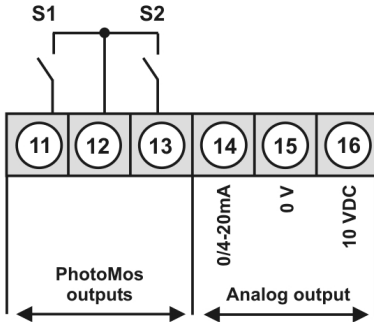
Supply 24 VDC

**M3-7TR5A.040X.770xD**      243.60

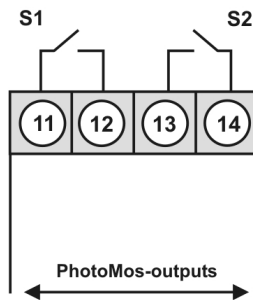
Supply 100-240 VAC, DC± 10%

**M3-7TR5A.040X.S70xD**      254.20

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	x	D	EUR	
															D	Dimension/physical unit, customer-specific settings	20.00
															2	2 PhotoMos outputs	31.80
															1	Without keypad, operation via PC software PM-TOOL	10.60
															X	Analog output 0/4-20 mA, 0-10 VDC galv. isolated	127.10
															B	Blue	46.60
															G	Green	10.10
															Y	Orange	10.10

• **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	x	D	EUR	
															D	Dimension/physical unit, customer-specific settings	20.00
															2	2 PhotoMos outputs	31.80
															1	Without keypad, operation via PC software PM-TOOL	10.60
															B	Blue	46.60
															G	Green	10.10
															Y	Orange	10.10

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

• **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.

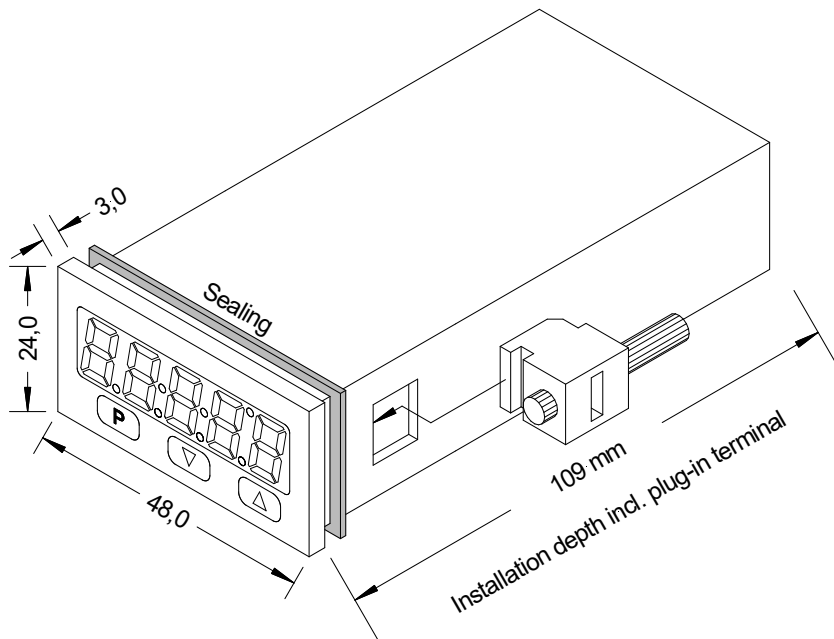
**ORDER NUMBER**      **EUR**

**PM-TOOL-MUSB4**      **94.30**

• **Technical data**

<b>Housing dimension</b>	Housing	B48 x H24 x T90 mm, (with plug-in terminal D= 109 mm)	
	Panel cut-out	45.0 <sup>+0.6</sup> x 22.2 <sup>+0.3</sup> mm	
	Fixing	screw elements for wall thicknesses up to 5 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 <sup>2</sup>	
<b>Display</b>	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	
<b>Measuring input</b>	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	
Measuring principle	U/F-conversion		
Resolution	0.1°C		
Characteristic line fault	<±1 K		
Reference junction	Thermistor		
<b>Output</b>	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	
<b>Power pack</b>	Supply	100-240 VAC 50/60Hz / DC ±10% (max. 5 VA) 24 VDC ±10%, galvanic isolated (max. 4 VA)	
<b>Memory</b>	EEPROM	Data life ≥ 100 years at 25°C	
<b>Ambient conditions</b>	Working temperature	0 to +50°C	
	Storing temperature	-20 to +80°C	
	Climatic density	relative humidity 0-85% on years average without dew	
<b>CE-sign</b>	Conformity to directive 2014/30/EU		
<b>EMV</b>	EN 61326, EN 55011		
<b>Safety standard</b>	According to low voltage directive 2014/35/EU, EN 61010; EN 60664-1		

**Housing:**



• Order key

	M	3-	7	T	R	5	A.	0	4	0	X.	7	7	0	x	D		
<b>Standard type M-Line</b>																		<b>Dimension</b>
																		<input type="checkbox"/> D physical unit
<b>Installation depth</b>																		<b>Version</b>
109 mm (incl. plug-in terminal)																		<input type="checkbox"/> x internal version
<b>Housing size</b>																		<b>Switching points</b>
48x24x90 mm (BxHxD)																		<input type="checkbox"/> 0 no switching point
																		<input type="checkbox"/> 2 2 PhotoMos outputs
<b>Display type</b>																		<b>Protection class</b>
Temperature																		<input type="checkbox"/> 1 without keypad, operation via PM-TOOL
																		<input type="checkbox"/> 7 IP65 / pluggable terminal
<b>Display colours</b>																		<b>Supply voltage</b>
Blue																		<input type="checkbox"/> 7 24 VDC galv. isolated
Green																		<input type="checkbox"/> S 100-240 VAC
Red																		
Orange																		
<b>Number of digits</b>																		<b>Measuring input</b>
5-digit																		<input type="checkbox"/> X Thermocouple
<b>Digit height</b>																		<b>Analog output</b>
10 mm																		<input type="checkbox"/> 0 without
																		<input type="checkbox"/> X 0-10 VDC, 0/4-20 mA
<b>Digital input</b>																		<b>Thermocouple</b>
without																		<input type="checkbox"/> 4 Type L, J, K, B, S, N, E, T, R