

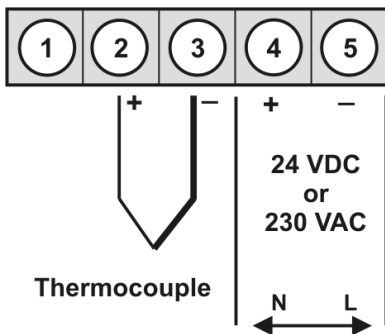
## IM1 – 4-digit digital panel meter in 96x24 mm (BxH) Thermocouple type B, E, J, K, L, N, R, S, T

- 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 CD & 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

Supply 24 VDC

**IM1-3TR4B.040X.570xD 190.60**

**IM1-3TR4B.040X.770xD 201.20**

### • Order key options

IM	1-	3	T	R	4	B.	0	4	0	X.	5	7	0	x	D	EUR	
IM	1-	3	T	R	4	B.	0	4	0	X.	7	7	0	x	D		
											1					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. CD & USB-adapter. Programming happens via an interface on the back.

**PM-TOOL-MUSB4 94.30**

## • Technical data

<b>Dimension</b>	Housing	B96 x H24 x D57 mm (including plug-in terminal, D= 74 mm)	
	Panel cut-out	92.0 <sup>+0.8</sup> x 22.2 <sup>+0.3</sup> 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	
<b>Display</b>	Connection	plug-in terminal; line cross-section up to 2.5 mm <sup>2</sup>	
	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	
<b>Measuring input</b>	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		
<b>Power pack</b>	Supply	230 VAC ±10 % (max. 3 VA) 24 VDC ±10 %, galvanic isolated (max. 1 VA)	
	EEPROM	Data life ≥ 100 years at 25°C	
<b>Ambient conditions</b>	Working temperature	0 to +60°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:

