

M1 – 4-digit digital panel meter in 48x24 mm (BxH)

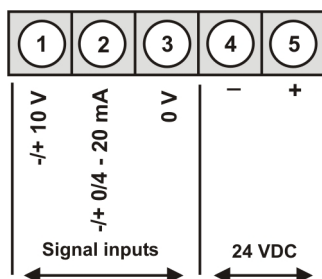
Standard signals 0/4-20 mA, 0-10 VDC; optional 50 VDC, 100 VDC

- red display of -1999...9999 digits (optional green, orange or blue display)
- minimal installation depth: 27 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min/max-value recording
- 10 adjustable supporting points
- display flashing at threshold exceedance / undercut
- navigation keys for the recall of min/max values or for limit value corrections during operation
- tara-function
- 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



ORDERING NUMBER
(without options)

• Direct voltage, direct current



Supply 24 VDC

M1-7VR4A.0001.770xD

• Product key options

M	1	7	V	R	4	A	0	0	0	1	7	7	0	x	D
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S100 up to 100 VDC, measuring fault 0.5% of final value

S260 up to 50 VDC, measuring fault 0.5% of final value

1	Without keypad, operation via PC software PM-TOOL
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B	Blue
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G	Green
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Y	Orange
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State physical unit in order, e.g. °F.

• Parameterisation software

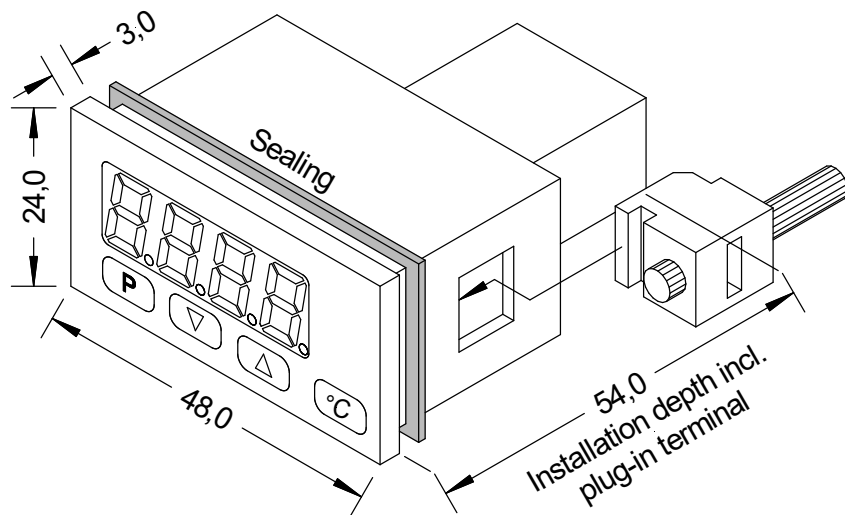
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming happens via an interface on the back.

PM-TOOL-MUSB4

• **Technical data**

Dimension	Housing	B48xH24xD27 mm (including plug-in terminal D= 54 mm)	
	Panel cut-out	45.0 ^{+0.8} x 22.2 ^{+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	10 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	Span	-12...12 V	/ -22...24 mA
	Measuring range	0-10 V	/ 0/4-20 mA
	Input resistance	Ri at ~200 kΩ	/ Ri at ~100 Ω
	Measuring fault	0.1% of measuring range, ± 1 Digit / 0.1% of measuring range, ± 1 Digit	
	Temperature drift	100 ppm/K	
	Measuring time	0.1 ... 10.0 seconds	
	Measuring principle	U/F-conversion	
	Resolution	approx. 18 Bit at 1 sec measuring time	
Power pack	Supply	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:



• Order key

	M	1-	7	V	R	4	A.	0	0	0	1.	7	7	0	x	D	
Basic type M-Line																	<input type="checkbox"/> S100 Measuring input 100 VDC <input type="checkbox"/> S260 Measuring input 50 VDC
Installation depth 54 mm incl. plug-in terminal																	Dimension <input type="checkbox"/> D physical unit
Housing size 48x24x27 mm (BxHxD)																	Version <input type="checkbox"/> x internal version
Display type V, A																	Switching points <input type="checkbox"/> 0 no switching point
Display colours Blue Green Red Orange																	Protection class <input type="checkbox"/> 1 without keypad, operation via PM-TOOL <input type="checkbox"/> 7 IP65 / plug-in terminal
Number of digits 4-digit																	Supply voltage <input type="checkbox"/> 7 24 VDC galv. isolated
Digit height 10 mm																	Measuring input <input type="checkbox"/> 1 Direct current, direct voltage
Digital input without																	Analog output <input type="checkbox"/> 0 without
																	Sensor supply <input type="checkbox"/> 0 without