

# M1 – 4-digit digital panel meters in 72x36 mm (BxH)

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

- red display with -1999...9999 digits (optional green, orange or blue displays)
- installation depth: 100 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min/max-value recording
- 10 adjustable support points
- display flashing at threshold undercut/ exceedance
- navigation keys for the recall of the min/max-values or for threshold value corrections during operation
- tara-function
- programming interlock via access code
- protection class IP65 at the front
- plug-in terminal
- optional: 2 relay outputs
- accessories: pc-based configuration-kit PM-TOOL with USB adapter
- on request: devices for working temperatures of -40°C...+70°C

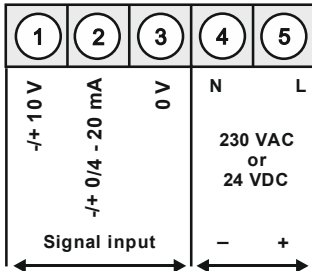


**ORDER NUMBER** **EUR**  
(without options)

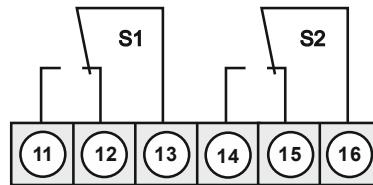
### • Direct current, direct voltage

Supply 230 VAC **M1-6VR4B.0001.570xD** **185.30**

Supply 24 VDC **M1-6VR4B.0001.770xD** **195.90**



### Option:



For further voltage inputs see options!

### • Product key options

M	1-	6	V	R	4	B.	0	0	0	1.	5	7	0	x	D	EUR	
M	1-	6	V	R	4	B.	0	0	0	1.	7	7	0	x	D		
																S100 to 100 VDC, measuring error 0.5% of final value	47.70
																S260 to 50 VDC, measuring error 0.5% of final value	15.90
																D Dimension/physical unit, customer-specific settings	20.00
																2 2 relay outputs	31.80
																1 without keypad, operation via PC software PM-TOOL	10.60
																X Other voltage supplies on request!	
																B Blue	35.00
																G Green	10.10
																Y Orange	10.10

State physical unit by order, e.g. m/min!

### • Parameterisation software

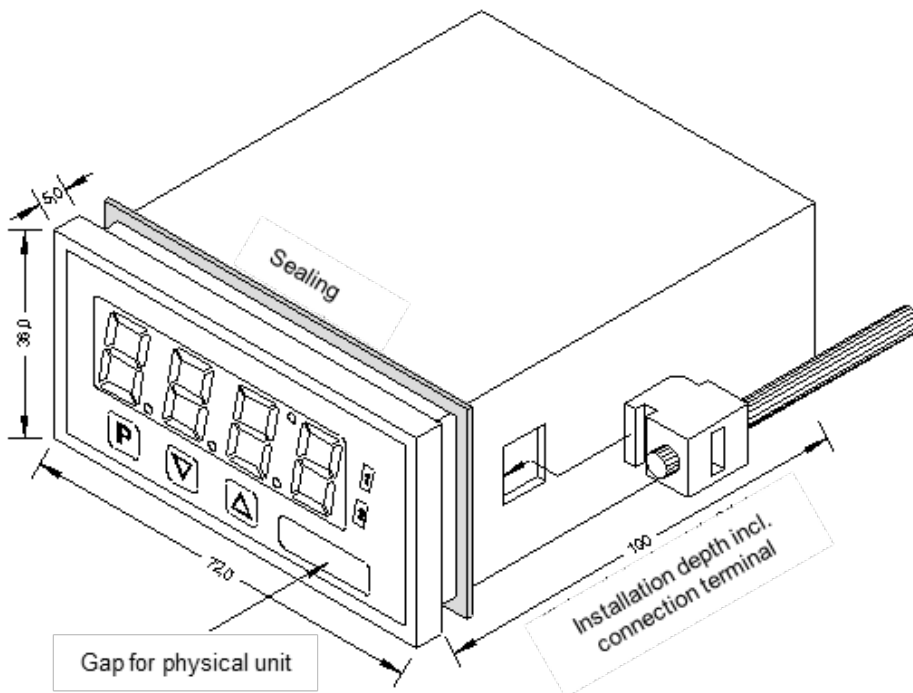
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. USB-adapter. Programming happens via an interface on the back.

**PM-TOOL-MUSB4** **94.30**

• **Technical data**

<b>Dimensions</b>	Housing	B72 x H36 x D71 mm, (incl. plug-in terminal D = 100 mm)		
	Panel cut-out	68.0 <sup>+0.7</sup> x 32.0 <sup>+0.6</sup> mm		
	Fixing	screw elements for wall thickness 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 <sup>2</sup>		
<b>Display</b>	Display	4-digit		
	Digit height	14 mm		
	Segment colour	red (Standard), optional available in green, blue and orange		
	Range of display	-1999 to 9999		
	Threshold values	optical display flashing		
	Overflow	horizontal bars at the top		
	Underflow	horizontal bars at the bottom		
	Display time/Meas. time	0.1 to 10.0 seconds		
<b>Measuring input</b>	Measuring span	-12...12 V	/ -22...24 mA	
	Measuring range	0-10 VDC	/ 0/4-20 mA	
	Input resistance	Ri with ~200 kΩ	/ Ri with ~100 Ω	
	Measuring error	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		
	<b>Output</b>	2x relay outputs	contact voltage 30 VDC/AC, max. 2 A resistive load	
		with normally open contact	operating life < 30 mV/< 10 mA – minimum 2.5x10 <sup>6</sup>	
		30 VDC / 1 A – minimum 5x10 <sup>5</sup> 30 VDC / 2 A – minimum 1x10 <sup>5</sup>		
<b>Power pack</b>	Supply	230 VAC ±10 % (max. 3 VA)		
		24 VDC ±10 %, galvanic isolated (max. 1 VA)		
<b>Memory</b>	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:**



• Product key

	M	1-	6	V	R	4	B.	0	0	0	1.	7	7	0	x	D	
<b>Basic type M-line</b>																	
<b>Installation depth</b> 100 mm incl. plug-in terminal																	<b>Dimension</b> D physical unit
<b>Housing size</b> 72x36x71 mm (BxHxD)																	<b>Version</b> x internal version
<b>Display type</b> V, A																	<b>Switching points</b> 0 no switching points 2 2 relay outputs
<b>Display colours</b> Blue Green Red Orange																	<b>Protection class</b> 1 without keypad, operation via PM-TOOL 7 IP65 / plug-in terminal
<b>Number of digits</b> 4-digit																	<b>Supply voltage</b> 5 230 VAC 7 24 VDC galv. isolated
<b>Digit height</b> 14 mm																	<b>Measuring input</b> 1 Direct current, direct voltage
<b>Digital input</b> none																	<b>Analog output</b> 0 none
																	<b>Sensor supply</b> 0 none