

# M1– 4-digit digital panel meter in 96x48 mm (BxH) Current loop 4-20 mA

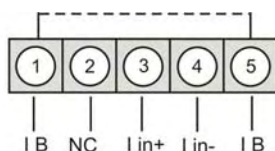
- red display of -1999...9999 digits
- minimal installation depth: 25 mm without pluggable screw terminal
- adjustment via factory default or directly on the sensor signal
- min-/max-value recording
- 10 adjustable support points
- display flashing at threshold exceedance / undershooting
- tara-function
- programming interlock via access code
- protection class IP65 at the front
- plug-in terminal
- navigation keys for the triggering of min/max values or for threshold value corrections during operation
- optional two PhotoMos switching inputs
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on demand: devices for working temperatures of -25°C...60°C or of -40°C...80°C



**ORDER NUMBER**  
(without options)

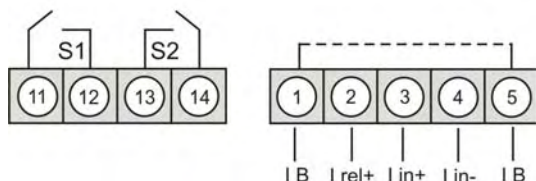
**EUR**

## • Direct current 4-20 mA



**M1-1SR4B.0001.K70BD**

**M1-1SR4B.0001.K72BD**



## • Product key options

**EUR**

M	1-	1	S	R	4	B.	0	0	0	1.	K	7	0	B	D
M	1-	1	S	R	4	B.	0	0	0	1.	K	7	2	B	D

1 without keypad, operation on the back

Please state physical unit on demand, e.g. U/min.

## • Parameterisation software

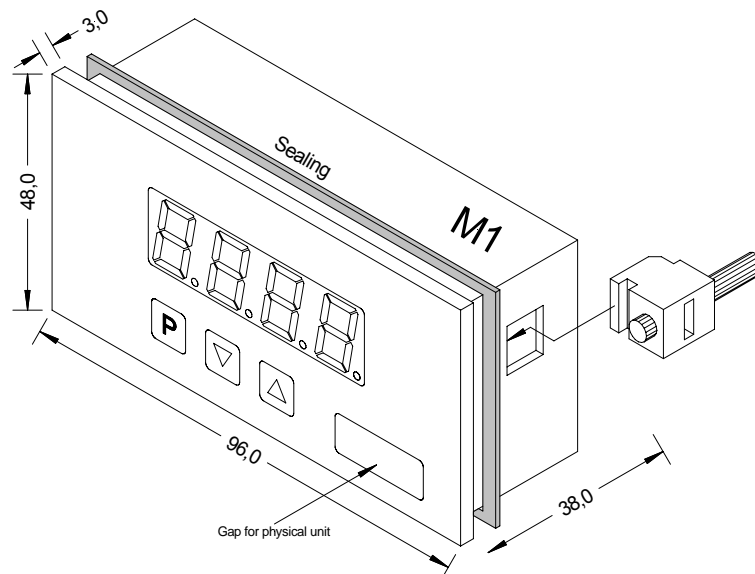
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming is made via an interface on the back.

**PM-TOOL-MUSB4**

## • Technical data

<b>Dimensions</b>	Housing	B96 x H48 x D25 mm, (incl. plug-in terminal D= 38 mm)
	Panel cut-out	92.0 <sup>+0.8</sup> x 45.0 <sup>+0.6</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	front IP65 standard, rear side IP00
	Weight	approx. 100 g
<b>Display</b>	Connection	plug-in terminal; line cross section up to 2.5 mm <sup>2</sup>
	Digit height	14 mm
	Segment colour	red
	Display range	-1999 to 9999
	Setpoints	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>	Input	min. 3.5...max. 21 mA
	Measuring range	4-20 mA
	Measuring fault	0.3% of measuring range, ± 1 digit
		Measuring fault at measuring time = 1 second
	Fail of voltage	approx. 5.1 V without switching outputs
		approx. 8.0 V with switching outputs
	Temperature drift	100 ppm/K
	Measuring time	0.1...10.0 seconds
	Measuring principle	successive approximation
	Resolution	12 Bit-converter
	14 Bit (noiseless by oversampling at 1 s measuring time)	
<b>Output</b>	Setpoints	potentialfree PhotoMOS-outputs
		max. switching voltage 30 VDC/AC max. steady current 0.4 A Electric strength AC: 400 V permanent, 1800 V for 1 minute
<b>Memory</b>	Flash-memory (independent of supply)	
	Data life	≥ 100 years at 25°C
<b>Ambient conditions</b>	Working temperature	0°C to + 60 °C
	Storing temperature	-20°C to + 80°C
	Climatic density	relative humidity 0-80% on years average without dew
<b>CE-sign</b>	Conformity to directive 2004/108/EG	
<b>EMV</b>	EN 61326, EN 55011	
<b>Safety standard</b>	according to low voltage directive 2006/95/EG, EN 61010; EN 60664-1	

## Housing:



• Ordering code

	M	1-	1	S	R	4	B.	0	0	0	1.	K	7	0	B	D	
<b>Basic type M-Line</b>																	<b>Dimension</b>
																	<input type="checkbox"/> D physical unit (free choice)
<b>Installation depth</b> 38 mm, incl. plug-in terminal																	<b>Version</b>
																	<input type="checkbox"/> B B
<b>Housing size</b> 96 x 48 x 25 mm																	<b>Setpoints</b>
																	<input type="checkbox"/> 0 without
<b>Display type</b> Current loop																	<input type="checkbox"/> 2 PhotoMOS-outputs
<b>Display colour</b> Red																	<b>Protection</b>
																	<input type="checkbox"/> 1 without keypad, operation on the back
																	<input type="checkbox"/> 7 IP65 / plug-in terminal
<b>Number of digits</b> 4-digit																	<b>Supply voltage</b>
																	<input type="checkbox"/> K via current loop
<b>Digit height</b> 14 mm																	<b>Measuring input</b>
																	<input type="checkbox"/> 1 Direct current 4-20 mA
<b>Interface</b> without																	<b>Analog output</b>
																	<input type="checkbox"/> 0 without
																	<b>Sensor supply</b>
																	<input type="checkbox"/> 0 without