

M1– 4-digit digital panel meter in 96x24 mm (BxH) Current loop 4-20 mA

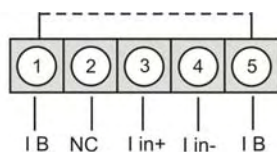
- red display of -1999...9999 digits
- minimal installation depth: 40 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min-/max-value recording
- 10 adjustable support points
- display flashing at threshold exceedance / undershooting
- tara-function
- programming interlock via access code
- protection class IP65 at the front
- plug-in screw terminal
- optional: two PhotoMos switching outputs
- 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



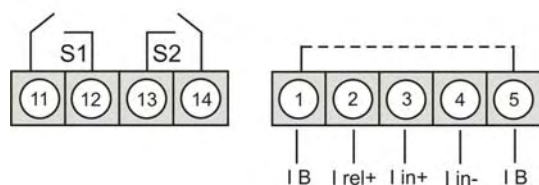
ORDER NUMBER
(without options)

EUR

- **Current loop device, direct current 4-20 mA**



M1-3SR4B.0001.K70BD



M1-3SR4B.0001.K72BD

• Product key options

M	1-	3	S	R	4	B.	0	0	0	1.	K	7	0	B	D
M	1-	3	S	R	4	B.	0	0	0	1.	K	7	2	B	D

EUR

1 Without keypad, operation on the back

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

• Parameterisation software

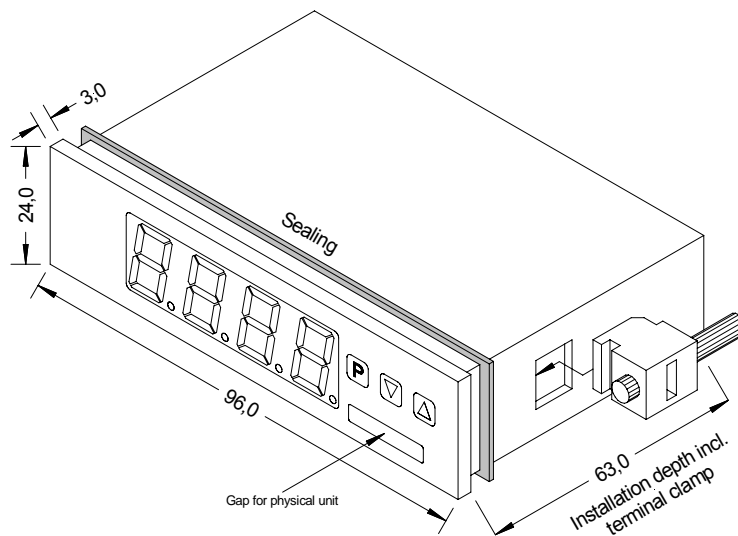
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming is made via an interface on the back.

PM-TOOL-MUSB6

• Technical data

Dimensions	Housing	B96 x H24 x D 40 mm, (incl. plug-in terminal D= 63 mm)
	Panel cut-out	92.0 ^{+0.8} x 22.2 ^{+0.3} 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
Display	Connection	plug-in terminal; line cross section up to 2.5 mm ²
	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	
Measuring input	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)	
Output	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
Memory	Flash-memory (independent of supply)	
	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 0-80% on years average without dew
CE-sign	Conformity to directive 200/108/EG	
EMV	EN 61326, EN 55011	
Safety standard	according to low voltage directive 2006/95/EG, EN 61010; EN 60664-1	

Housing:



• Ordering code

	M	1-	3	S	R	4	B.	0	0	0	1.	K	7	0	B	D	
Basic type M-Line																	Dimension
																	<input type="checkbox"/> D physical unit (free choice)
Installation depth 63 mm incl. plug-in terminal			<input type="checkbox"/> 1														Version
															<input type="checkbox"/> B		B
Housing size 96 x 24 x 37 mm			<input type="checkbox"/> 3														Switching points
															<input type="checkbox"/> 0		without
Display type Current loop				<input type="checkbox"/> S											<input type="checkbox"/> 2		PhotoMOS-outputs
Display colour Red				<input type="checkbox"/> R													Protection
														<input type="checkbox"/> 1			without keypad, operation on the back
														<input type="checkbox"/> 7			IP65 / plug-in terminal
Number of digits 4-digit			<input type="checkbox"/> 4														Supply voltage
														<input type="checkbox"/> K			via current loop
Digit height 14 mm				<input type="checkbox"/> B													Measuring input
														<input type="checkbox"/> 1			Direct current 4-20 mA
Interface without				<input type="checkbox"/> 0													Analog output
														<input type="checkbox"/> 0			without
																	Sensor supply
														<input type="checkbox"/> 0			without