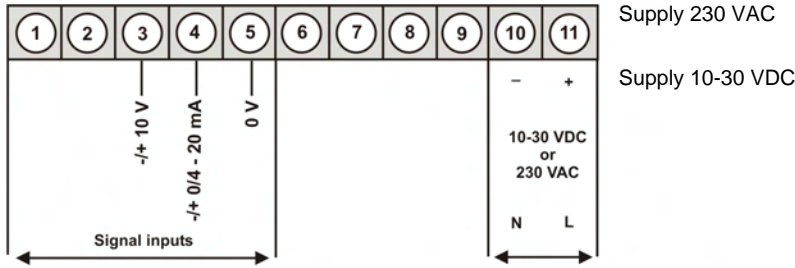




## M2 – 5-digit digital panel meter in 96x48 mm (BxH) Standard signal 0/4-20 mA, 0-10 VDC

- red display of -19999...99999 digits (optional green, orange, blue or tricolour display)
- compact installation depth: 70 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min-/max-memory with adjustable permanent display
- 30 additional adjustable supporting points
- display flashing at threshold value exceedance/undercut
- zero key for actuation of tara- /hold-function, display change, setpoint setting, alarm actuator
- flexible alarm system with adjustable delay times
- volume measurement (Totaliser)
- mathematical functions like reciprocal value, square root, square and rounding
- constant setting / respectively setpoint setting
- sliding averaging
- brightness control via parameters or front keys
- programming interlock via access code
- protection class IP65 at the front
- plug-in screw terminal
- optional: 2 relay outputs
- optional: sensor supply
- optional: 1 independently scalable analog output
- optional: galv. insulated digital input for the triggering of Tara, Hold, display change
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on demand: devices for working temperatures of -20°C...60°C or -40°C...70°C

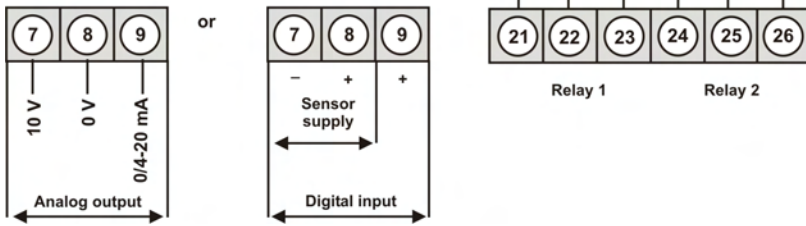
• Direct current, direct voltage



M2-1VR5B.0001.570CD

M2-1VR5B.0001.670CD

Options:



• Product key options:

M	2-	1	V	R	5	B.	0	0	0	1.	5	7	0	C	D
M	2-	1	V	R	5	B.	0	0	0	1.	6	7	0	C	D

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2	2 relay outputs
1	Without keypad, operation on the back
4	Voltage supply 115 VAC
X	Analog output 0/4-20 mA, 0-10 VDC with 230 VAC Analog output 0/4-20 mA, 0-10 VDC with 10-30 VDC
2	Sensor supply 10 VDC / 20 mA incl. digital input with 230 VAC Sensor supply 10 VDC / 20 mA incl. digital input with 10-30 VDC
3	Sensor supply 24 VDC / 50 mA incl. digital input with 230 VAC Sensor supply 24 VDC / 50 mA incl. digital input with 10-30 VDC
I	Digital input galv. insulated
B	Blue
G	Greene
Y	Orange
T	Tricolour (Red-Green-Orange)*

\*For devices with a 230 VAC voltage supply, there is only one option possible: relay outputs, analog output or sensor supply.

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

ORDER NUMBER

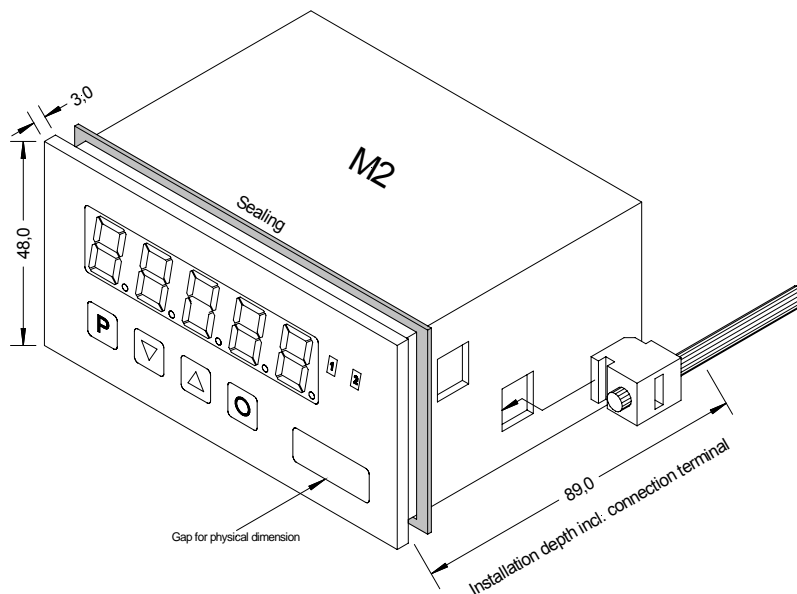
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PM-TOOL-MUSB4

• **Technical data**

<b>Dimension</b>	Housing	B96 x H48 x D70 mm (including plug-in terminal D= 89 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	at the front IP65 standard, back side IP00	
	Weight	approx. 250 g	
	Connection	plug-in terminal; line cross-section up to 2.5 mm <sup>2</sup>	
<b>Display</b>	Display	5-digit	
	Digit height	14 mm	
	Segment colour	red (standard), optional available in green, blue, orange or tricolour (red/green/orange)	
	Display range	-19999 to 99999	
	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>	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 second measuring time	
	<b>Output</b>	Relay	with change-over contact 250 V / 5 AAC, 30 V / 5 ADC
Switching cycle		30 * 10 <sup>3</sup> at 5 AAC, 5 ADC ohm resistive burden 10 * 10 <sup>6</sup> mechanically Separation in accordance with DIN EN 50178 / Specifications in accordance with DIN EN 60255	
Analog output		0-10 VDC/ burden ≥ 10 kΩ, 0/4-20 mA burden ≤ 500 Ω, 16 Bit	
Sensor supply	24 VDC / 50 mA 10 VDC / 20 mA		
<b>Digital input</b>	Input galv. insulated	< 2.4 OFF; > 10 V ON; max. 30 VDC, Ri at ~ 5 kΩ	
<b>Power pack</b>	Supply	230 VAC 50/60 Hz +/- 10 % (max. 10 VA) 10-30 VDC, galvanic insulated (max. 4 VA)	
	Memory	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 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:**



• Order key

	M	2-	1	V	R	5	B.	0	0	0	1.	6	7	0	C	D	
<b>Basic type M-Line</b>																	
<b>Installation depth</b> 89 mm (incl. plug-in terminal)																	<b>Dimension</b> D physical unit
<b>Housing size</b> 96x48x70 mm (BxHxD)																	<b>Version</b> C C
<b>Display type</b> V, A																	<b>Setpoints</b> 0 no setpoints 2 2 relay outputs
<b>Display colours</b> Blue Green Red Red/Green/Orange Orange																	<b>Protection class</b> 1 without keypad, operation on the back 7 IP65 / plug-in terminal
<b>Number of digits</b> 5-digit																	<b>Supply voltage</b> 4 115 VAC 5 230 VAC 6 10-30 VDC galv. insulated
<b>Digit height</b> 14 mm																	<b>Measuring input</b> 1 Direct current, direct voltage
<b>Digital input</b> without 1x digital input																	<b>Analog output</b> 0 without X 0-10 VDC, 0/4-20 mA
																	<b>Sensor supply</b> 0 without 2 10 VD / 20 mA incl. digital input 3 24 VDC / 50 mA incl. digital input