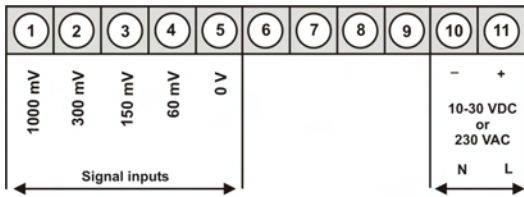




**M2 – 5-digit digital panel meter in 96x48 mm (BxH)
Direct voltage signals – Shunt
60 mV, 150 mV, 300 mV, 1000 mV**

- 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
- demand measurement and energy measurement at constant voltage
- mathematical functions like reciprocal value, square root, squaring 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: 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 voltage (Shunt)



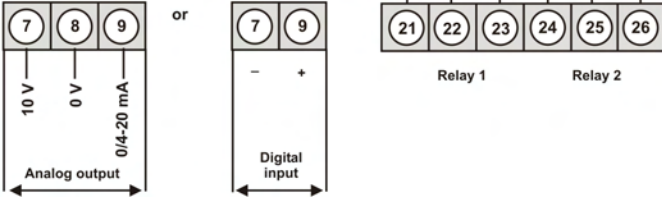
Supply 230 VAC

M2-1VR5B.0002.570CD

Supply 10-30 VDC

M2-1VR5B.0002.670CD

Options:



• Product key options

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

EUR

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
I	Digital input galv. insulated
B	Blau
G	Grün
Y	Orange
T	Tricolour (Rot-Grün-Orange)*

* Only one option available with 230 VAC voltage supply: relay outputs or analog output.

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

• 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

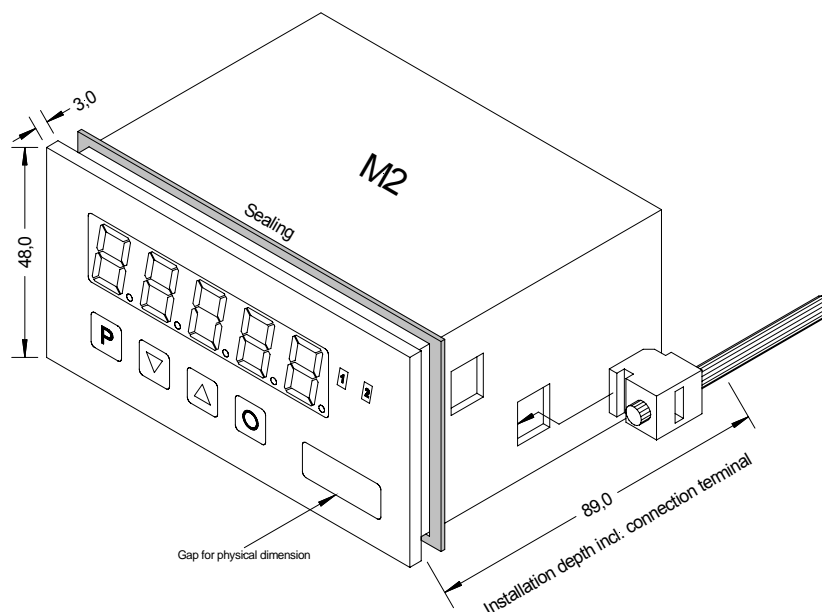
EUR

PM-TOOL-MUSB4

• Technical data

Dimension	Housing	B96 x H48 x D70 mm (including plug-in terminal D= 89 mm)				
	Panel cut-out	92.0 ^{+0.8} x 45.0 ^{+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. 250 g				
	Connection	plug-in terminal; line cross-section up to 2.5 mm ²				
Display	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					
Measuring input	Span	-5...75 mV	/ -15...180 mV	/ -30...360 mV	/ -100...1200 mV	
	Measuring range	0...60 mV	/ 0...150 mV	/ 0...300 mV	/ 0...1000 mV	
	Input resistance	Ri at ~12 kΩ	/ Ri at ~30 Ω	/ Ri at ~60 Ω	/ Ri at ~200 Ω	
	Measuring fault	0.2% 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 1s measuring time				
	Output	Relay	with change-over contact 250 V / 5 AAC, 30 V / 5 ADC			
		Switching cycle	10 * 10 ³ at 5 AAC, 5 ADC ohm resistive burden 10 * 10 ⁶ 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				
Digital input	Input galv. insulated	< 2.4 OFF; > 10 V ON; max. 30 VDC, Ri at ~ 5 kΩ				
Power pack	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				
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 2004/108/EG					
EMV	EN 61326, EN 55011					
Safety standard	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	2.	6	7	0	C	D	
Basic type M-Line																	Dimension
Installation depth 89 mm (incl. plug-in terminal)																	<input type="checkbox"/> D physical unit (free selectable)
Housing size 96x48x70 mm (BxHxD)																	Version
Display type mV																	<input type="checkbox"/> C C
Display colours																	Switching points
Blue																	<input type="checkbox"/> 0 no switching point
Green																	<input type="checkbox"/> 2 2 relay outputs
Red																	Protection class
Red/Green/Orange																	<input type="checkbox"/> 1 without keypad, operation on the back
Orange																	<input type="checkbox"/> 7 IP65 / plug-in terminal
Number of digits 5-digit																	Supply voltage
Digit height 14 mm																	<input type="checkbox"/> 4 115 VAC
Digital input without																	<input type="checkbox"/> 5 230 VAC
1x digital input																	<input type="checkbox"/> 6 10-30 VDC galv. insulated
																	Measuring input
																	<input type="checkbox"/> 2 Shunt
																	Analog output
																	<input type="checkbox"/> 0 without
																	<input type="checkbox"/> X 0-10 VDC, 0/4-20 mA
																	Sensor supply
																	<input type="checkbox"/> 0 without