



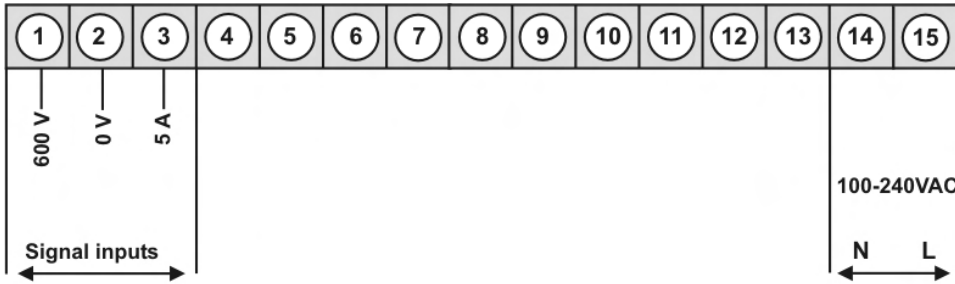
M3 – 5-digit digital panel meter in 96x24 mm (BxH) Standard signal 600 VDC, 1 ADC

- red display from -19999...99999 digits (optional green, orange, blue or tricolour display)
- installation depth: 120 mm without plug-in screw terminal
- multi voltage power supply unit 100-240 VAC
- adjustment via factory setting or directly on the sensor signal
- min-/max-memory with adjustable permanent display
- 30 additional adjustable support points
- display flashing at threshold value exceedance / undercut
- navigation keys for the triggering of Hold, Tara, display change, setpoint setting, alarm actuation
- flexible alarm system with adjustable delay times
- volume measurement (Totaliser)
- mathematical functions like reciprocal value, square root, square and rounding
- constant setting / setpoint setting
- sliding averaging
- brightness control via parameter 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: interface RS232 or RS485
- 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

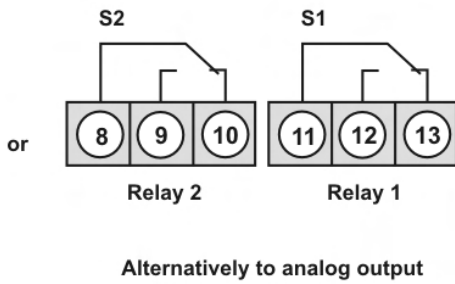
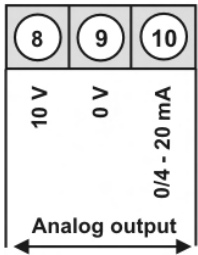
• Direct current, direct voltage – special measuring inputs H

Supply 100-240 VAC, DC ± 10%

M3-3VR5B.0H01.S70BD



Options:



• Product key options

M	3	3	V	R	5	B.	0	H	0	1.	S	7	0	B	D
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1	1 relay output (with option analog output only 1 switching point is possible)
2	2 relay outputs
1	without keypad, operation on the back
X	Analog output 0/4-20 mA, 0-10 VDC
B	Blue
G	Green
Y	Orange
T	Tricolour (Red-Green-Orange)

On demand state dimension unit on order, e.g. V.

• Parameterisation software

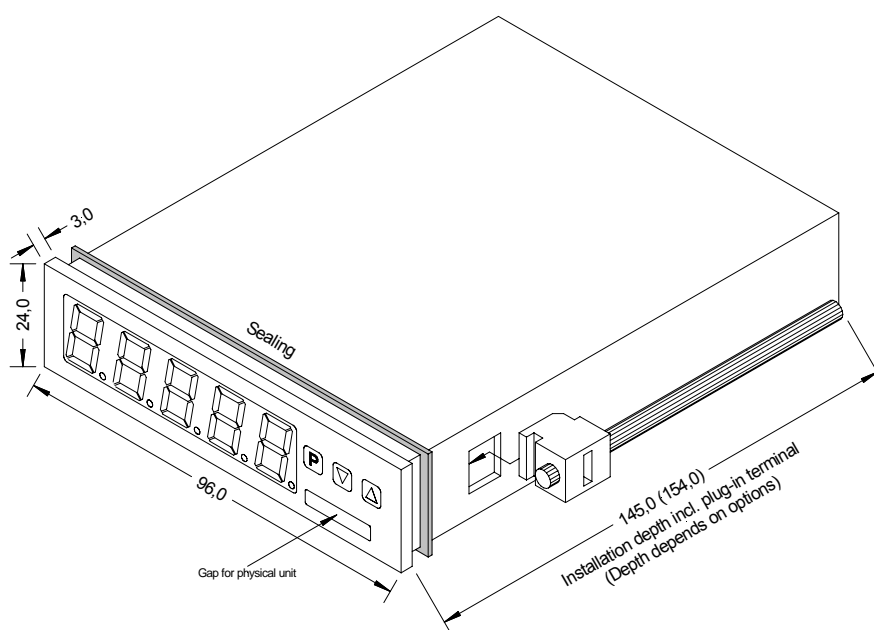
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming is made via an interface on the back.

PM-TOOL-MUSB4

• Technical data

Dimensions	Housing	B96 x H24 x D120 mm, (incl. plug-in terminal D= 145 mm cable outlet at the back)
	Panel cut-out	92.0 ^{+0.8} x 22.2 ^{+0.3} mm
	Fixing	screw elements for a 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. 250 g
	Connection	plug-in terminal; wire cross section up to 2.5 mm ²
Display	Display	5-digit
	Digit height	14 mm
	Segment colour	red (Standard), optional in green, orange, blue or tricolour (red/green/orange)
	Range of display	-19999 to 99999
	Threshold value	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	Measuring range	-600...600 VDC / -1...1 ADC
	Input resistance	R _i with ~ 2 MΩ / R _i with ~ 0.2 MΩ
	Measuring fault	0.5 % of final value
	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	30 * 10 ³ at 5 AAC, 5 ADC ohm resistive burden, 10 * 10 ⁶ mechanically Separation according to DIN EN50178 / Specific values according to 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 V OFF; >10 V ON; max. 30 VDC, R _i ~ 5 kΩ
Power pack	Supply	100-240 VAC 50/60 Hz, DC ± 10 % (max. 10 VA)
Memory	EEPROM	Data preservation ≥ 100 years at 25°C
Ambient condition	Working temperature	0 to + 50 °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	3-	3	V	R	5	B.	0	H	0	1.	S	7	0	B	D	
Standard type M-Line																	Dimension
																	<input type="checkbox"/> D physical unit (on demand)
Installation depth 145 mm incl. plug-in terminal (154 mm)																	Version
																	<input type="checkbox"/> B B
Housing size 96x24x120 mm (BxHxT)																	Switching points
																	<input type="checkbox"/> 0 without
																	<input type="checkbox"/> 1 1 relay output
																	<input type="checkbox"/> 2 2 relay outputs
Display type V, A																	Protection class
																	<input type="checkbox"/> 1 without keypad, operation via PM-TOOL
Display colours																	<input type="checkbox"/> 7 IP65 / plug-in terminal
Blue																	
Green																	
Red																	
Red/Green/Orange																	
Orange																	
Number of digits 5-digits																	Supply voltage
																	<input type="checkbox"/> S 100-240 VAC
Digit height 14 mm																	Measuring input
																	<input type="checkbox"/> 1 Direct voltage, direct current
Digital input without																	Analog output
																	<input type="checkbox"/> 0 without
																	<input type="checkbox"/> X 1x 0-10 VDC, 0/4-20 mA
																	Special measuring input
																	<input type="checkbox"/> H 600 VDC, 1 ADC