



## **M3 – 5-digit digital panel meter in 96x24 mm (BxH) Resistance 1 k $\Omega$ , 10 k $\Omega$ or 100 k $\Omega$**

- 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, alternatively 10-40 VDC galvanic isolated
- 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: 1 or 2 relay outputs
- optional: 1 independently scalable analog output
- optional: interface RS232 or RS485
- accessories: pc-based configuration-kit PM-TOOL with USB adapter
- on request: devices for working temperatures of -20°C...60°C or -40°C...70°C

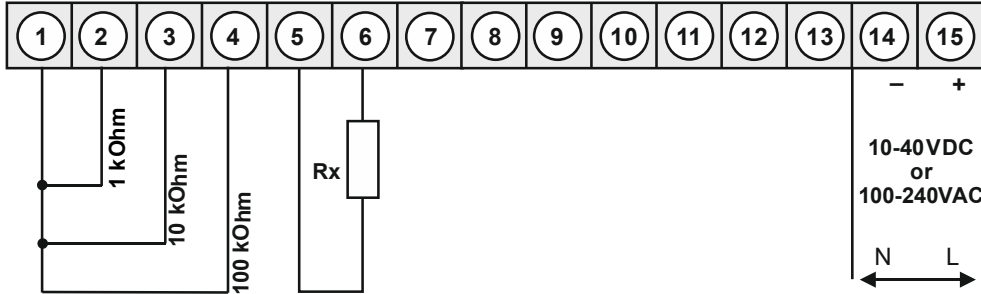
• **Resistance (1 kΩ, 10 kΩ or 100 kΩ)**

Supply 100-240 VAC, DC ± 10%

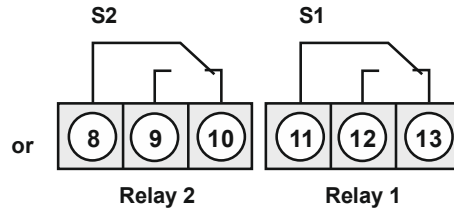
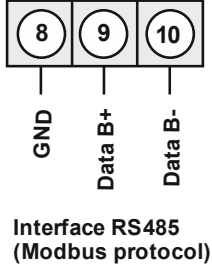
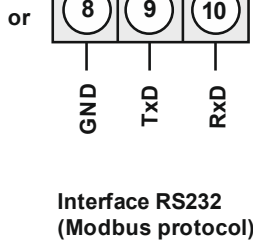
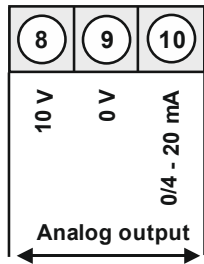
**M3-3VR5B.0006.S70xD** 270.10

Supply 10-40 VDC, 18-30 VAC

**M3-3VR5B.0006.W70xD** 270.10



**Options:**



Alternatively to analog output

• **Product key options**

M	3-	3	V	R	5	B.	0	0	0	6.	S	7	0	x	D
M	3-	3	V	R	5	B.	0	0	0	6.	W	7	0	x	D

		EUR
D	Dimension/physical unit, customer-specific settings	20.00
1	1 relay output (with option analog output only 1 switching point is possible)	21.20
2	2 relay outputs	31.80
1	without keypad, operation via PC software PM-TOOL	10.60
X	Analog output 0/4-20 mA, 0-10 VDC	105.90
3	Interface RS232 galvanic isolated	68.80
4	Interface RS485 galvanic isolated	68.80
B	Blue	46.60
G	Green	10.10
Y	Orange	10.10
T	Tricolour (Red-Green-Orange)	31.80

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

• **Parameterisation software**

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

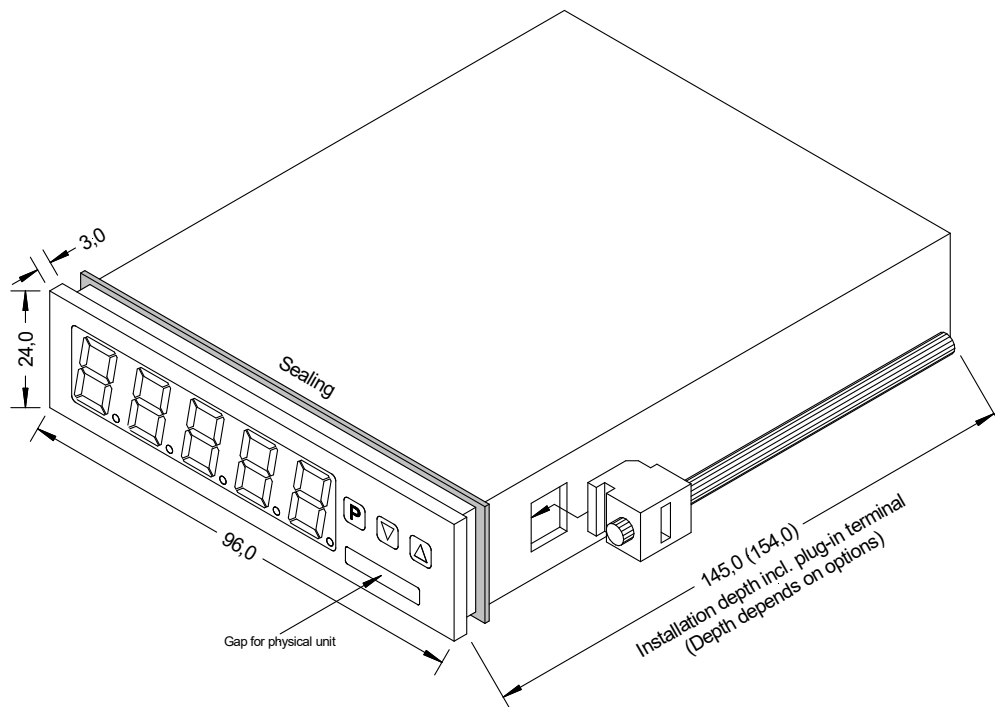
**PM-TOOL-MUSB4**

**94.30**

• **Technical data**

<b>Dimensions</b>	Housing Panel cut-out Fixing Housing material Sealing material Protection class Weight Connection	B96 x H24 x D120 mm, (incl. plug-in terminal D= 145 mm cable outlet at the back) 92.0 <sup>+0.8</sup> x 22.2 <sup>+0.3</sup> mm screw elements for a wall thickness up to 10 mm PC Polycarbonate, black EPDM, 65 Shore, black at the front IP65 standard, at the back IP00 approx. 250 g plug-in terminal; wire cross section up to 2.5 mm <sup>2</sup>
<b>Display</b>	Display Digit height Segment colour Range of display Threshold value Overflow Underflow Display time	5-digit 14 mm red (Standard), optional in green, orange, blue or tricolour (red/green/orange) -19999 to 99999 optical display flashing horizontal bars at the top horizontal bars at the bottom 0.1 to 10.0 seconds
<b>Measuring input</b>	Span Measuring range Measuring fault Temperature drift Measuring time Measuring principle Resolution	0...1.1 kΩ / 0...11 kΩ / 0...110 kΩ 0...1 kΩ / 0...10 kΩ / 0...100 kΩ 0.5% of measuring range, ± 1 digit 100 ppm/K 0.1 ... 10.0 seconds U/F-conversion approx. 18 bit at 1 sec measuring time
<b>Output</b>	Relay Switching cycle  Analog output	with change-over contact 250 V / 2 AAC, 30 V / 2 ADC 30 * 10 <sup>3</sup> at 2 AAC, 2 ADC Ohm resistive burden, 10 * 10 <sup>6</sup> mechanically Separation according to DIN EN50178 / Specific values according to DIN EN 60255 0-10 VDC / burden ≥ 10 kΩ, 0/4-20 mA / burden ≤ 500 Ω, 16 bit
<b>Interface</b>	Protocol RS232 RS485	Modbus with ASCII or RTU-protocol 9.600 Baud, no parity, 8 DataBit, 1 StopBit, Pipeline length max. 3 m 9.600 Baud, no parity, 8 DataBit, 1 StopBit, Pipeline length max. 1000 m
<b>Power pack</b>	Supply	100-240 VAC 50/60 Hz, DC ±10 % (max. 10 VA) 10-40 VDC galv. isolated, 18-30 VAC 50/60 Hz (max. 10 VA)
<b>Memory</b>	EEPROM	Data preservation ≥ 100 years at 25°C
<b>Ambient condition</b>	Working temperature Storing temperature Climatic density	0 to +50°C -20 to +80°C relative humidity 0-85% on years average without dew
<b>CE-sign</b>	Conformity to directive 2014/30/EU	
<b>EMV</b>	EN 61326, EN 55011	
<b>Safety standard</b>	According to low voltage directive 2014/35/EU, EN 61010; EN 60664-1	

**Housing:**



• Order key

	M	3-	3	V	R	5	B.	0	0	0	6.	W	7	0	x	D	
<b>Standard type M-Line</b>																	<b>Dimension</b>
																	<input type="checkbox"/> D physical unit
<b>Installation depth</b>																	<b>Version</b>
145 mm incl. plug-in terminal (154 mm)			<input type="checkbox"/> 3														<input type="checkbox"/> x internal version
<b>Housing size</b>																	<b>Switching points</b>
96x24x120 mm (BxHxT)			<input type="checkbox"/> 3														<input type="checkbox"/> 0 without
<b>Display type</b>																	<input type="checkbox"/> 1 1 relay output
Resistance				<input type="checkbox"/> V													<input type="checkbox"/> 2 2 relay outputs
<b>Display colours</b>																	<b>Protection class</b>
Blue					<input type="checkbox"/> B												<input type="checkbox"/> 1 without keypad, operation via PM-TOOL
Green					<input type="checkbox"/> G												<input type="checkbox"/> 7 IP65 / plug-in terminal
Red					<input type="checkbox"/> R												
Red/Green/Orange					<input type="checkbox"/> T												
Orange					<input type="checkbox"/> Y												<b>Supply voltage</b>
<b>Number of digits</b>																	<input type="checkbox"/> S 100-240 VAC
5-digits																	<input type="checkbox"/> W 10-40 VDC
<b>Digit height</b>																	<b>Measuring input</b>
14 mm					<input type="checkbox"/> B												<input type="checkbox"/> 6 1 kΩ, 10 kΩ or 100 kΩ
<b>Digital input</b>																	<b>Analog output</b>
without																	<input type="checkbox"/> 0 without
Interface RS232																	<input type="checkbox"/> X 1x 0-10 VDC, 0/4-20 mA
Interface RS485																	<b>Sensor supply</b>
																	<input type="checkbox"/> 0 without