

M1 – 4-digit digital panel meter in 72x36 mm (WxH) AC voltage / AC current signals rms-value (TRMS)

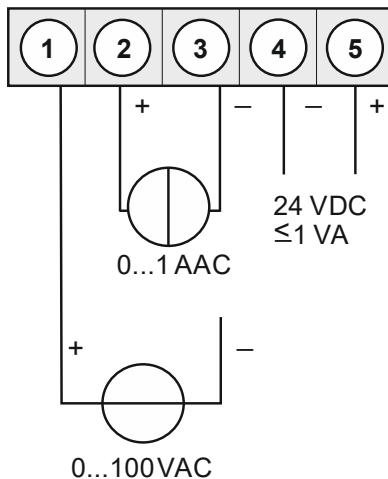
- 0-100 VAC, 0-1 AAC
- 0-300 VAC, 0-5 AAC (special measuring input H)

- red display of -1999...9999 Digits (optional green, orange, blue or tricolour display)
- compact installation depth: 71 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min/max-memory
- 10 adjustable supporting points
- display flashing at threshold value exceedance/undercut
- navigation keys for the recall of min/max-values or limit value corrections during operation
- tara function
- programming interlock via access code
- protection class IP65 at the front
- plug-in terminal
- accessories: pc-based configuration-kit PM-TOOL with USB adapter
- on request: devices for working temperatures of -40°C...+70°C



ORDER NUMBER **EUR**
(without options)

• Alternating current, alternating voltage (AC)



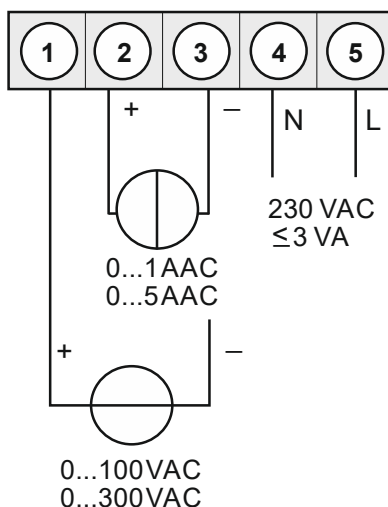
Supply 230 VAC

Supply 230 VAC
special measuring input H

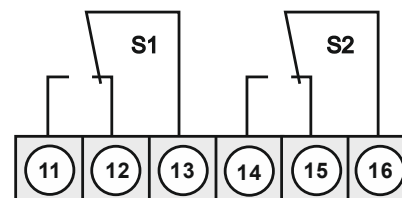
Supply 24 VDC

M1-6VR4B.0004.570xD	210,80
M1-6VR4B.0H04.570xD	240,80
M1-6VR4B.0004.770xD	225,80

• Alternating current, alternating voltage (AC) – special measuring input H



Option:



• Order code options

M	1-	6	V	R	4	B.	0	x	0	4.	5	7	0	x	D
M	1-	6	V	R	4	B.	0	0	0	4.	7	7	0	x	D

EUR

D	Dimension/physical unit, customer-specific settings	20,00
1	without keypad, operation via PM-TOOL	10,60
2	2 relay outputs	31,80
X	Other voltage supplies on request!	
B	Blue	35,00
G	Green	10,10
Y	Orange	10,10

Please state physical unit in order, e.g. m/min.

• 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.

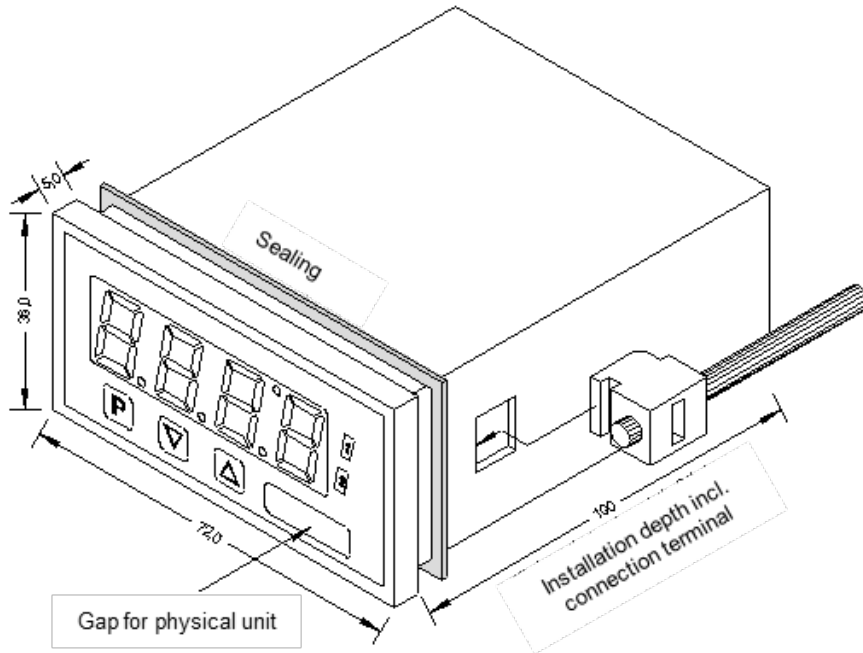
PM-TOOL-MUSB4

94,30

• Technical data

Dimensions	Housing Panel cut-out Fixing Housing material Sealing material Protection class Weight Connection	W72 x H36 x D71 mm (including plug-in terminal D=100 mm) 68.0 ^{+0.7} x 32.2 ^{+0.6} mm screw elements for insulation thickness up to 3 mm PC polycarbonate, black EPDM, 65 Shore, black at the front IP65 standard, back side IP00 approx. 200 g plug-in terminal; line cross-section up to 2.5 mm ²
Display	Display Digit height Segment colour Display range Threshold value Overflow Underflow Display/Measuring time	4-digit 14 mm red (standard), optional available in green, blue or orange -1999 to 9999 optical display flashing horizontal bars at the top horizontal bars at the bottom 0.1 to 10.0 seconds
Measuring input	Measuring range Input resistance Measuring error Temperature drift Measuring time Measuring principle Resolution	300 VAC / 100 VAC / 5 AAC / 1 AAC Ri at ~ 1 MΩ / Ri at ~ 330 kΩ / Ri at ~ 0.05 Ω / Ri at ~ 0.2 Ω 0.5 % final value at 50 Hz...1kHz up to crestfactor 4 for input signals of 1...100% of final value 100 ppm/K 0.1 ... 10.0 seconds U/F- conversion approx. 18 bit at 1 second measuring time
Output	Relay Life cycle	30 VDC/AC, max. 2 A resistive burden < 30 mV/< 10 mA – min. 2,5x10 ⁶ 30 VDC / 1 A – min. 5x10 ⁵ 30 VDC / 2 A – min. 1x10 ⁵
Power pack	Supply	230 VAC ± 10 % (max. 3 VA) 24 VDC ± 10 %, galvanic isolated (max. 1 VA)
Memory	EEPROM	Data life ≥ 100 years at 25°C
Ambient conditions	Working temperature Storing temperature Climatic density	0 to + 60°C -20 to + 80°C relative humidity 0-85% on years average without dew
CE-sign	Conformity to directive 2014/30/EU	
EMV	EN 61326, EN 55011	
Safety standard	According to low voltage directive 2014/35/EU, EN 61010; EN 60664-1	

Housing:



• Order key

	M	1-	6	V	R	4	B.	0	x	0	4.	7	7	0	x	D
Standard type M-Line																
Type																
Type M1			1													
Housing dimension																
72x36x71mm (WxHxD)			6													
Display type																
V, A				V												
Display colours																
Blue					B											
Green					G											
Red					R											
Orange					Y											
Number of digits																
4-digits																4
Digit height																
14 mm																B
Digital input																
None																0
Dimension																
D Physical unit																D
Version																
x internal version																x
Switching points																
0 no switching point																0
2 Relay outputs																2
Protection class																
1 No key pad, operation via PM-TOOL																1
7 IP65 / plug-in terminal																7
Voltage supply																
5 230VAC																5
7 24VDC galvanic isolated (not with special version "H")																7
Measuring input																
4 AC voltage, AC current																4
Analog output																
0 None																0
Measuring input AC																
0 0-1AAC, 0-100VAC																0
H 0-5AAC, 0-300VAC (only with 230VAC voltage supply)																H