



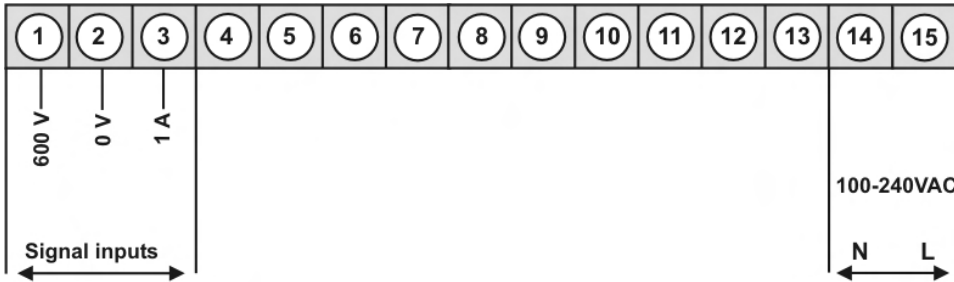
M3 – 5-digit digital panel meter in 96x24 mm (BxH) AC voltage signals / AC current signals – rms-value (TRMS) 600 VAC, 5 AAC

- 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
- flexible power measurement and energy measurement at constant voltage
- 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
- 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

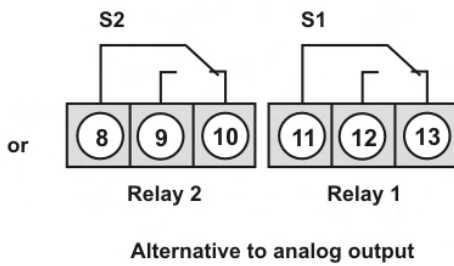
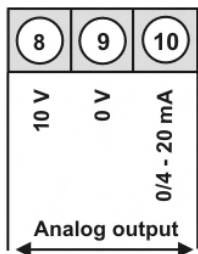
• AC current, ac voltage (true RMS value) – special measuring inputs H

Supply 100-240 VAC, DC ± 10%

M3-3VR5B.0H04.S70BD



Options:



• Product key options

M	3-	3	V	R	5	B.	0	H	0	4.	S	7	0	B	D	EUR	
																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.

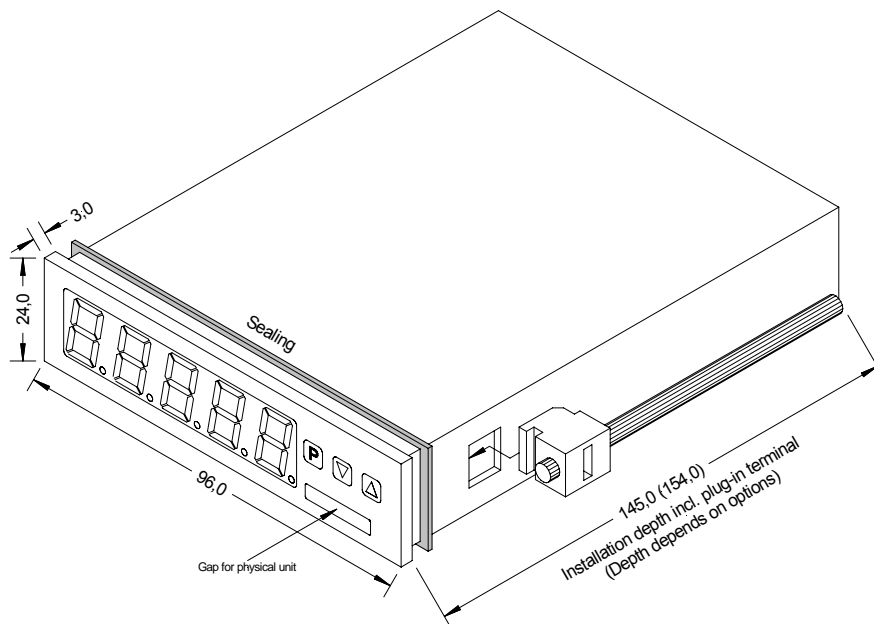
• Parameterisation software

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 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 ^{+0.8} x 22.2 ^{+0.3} mm screw elements for a wall thickness up to 3 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 ²
Display	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
Measuring input	Measuring range Input resistance Measuring fault Temperature drift Measuring time Measuring principle Resolution	600 VAC / 5 AAC R _i at ~ 2 MΩ / R _i at ~ 0.02 MΩ 0.5 % of final value with 50 Hz...1 kHz to crest factor 4 for input signals from %...100% of final value 100 ppm/K 0.1 ... 10.0 seconds U/F-conversion approx. 18 Bit at 1s measuring time
Output	Relay Switching cycle Analog output	with change-over contact 250 V / 5 AAC, 30 V / 5 ADC 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 0-10 VDC / burden ≥ 10 kΩ, 0/4-20 mA / burden ≤ 500 Ω, 16 Bit
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 Storing temperature Climatic density	0 to + 50 °C -20 to + 80 °C 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	4.	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"/> 4 AC, TRUE RMS
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 VAC, 5 AAC