

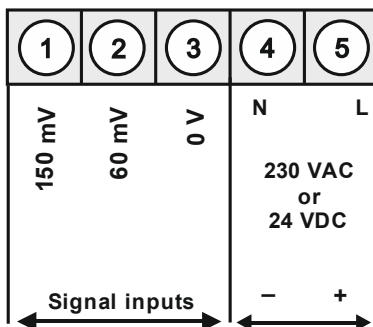
## IM1 – 4-digit digital panel meters in 72x36 mm (BxH) Direct voltage (Shunt) 0-60 mV, 0-150 mV

- red display with -1999...9999 digits (optional green, orange or blue displays)
- installation depth: 100 mm with plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min/max-value recording
- 10 adjustable setpoints
- display flashing at threshold undercut/ exceedance
- navigation keys for the recall of the min/max-values or for threshold value corrections during operation
- tara-function
- programming interlock via access code
- protection class IP65 at the front
- plug-in terminal
- optional: 2 relay outputs
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on request: devices for working temperatures of -40°C...+70°C



**ORDER NUMBER** **EUR**  
(without options)

### • Direct voltage (Shunt)



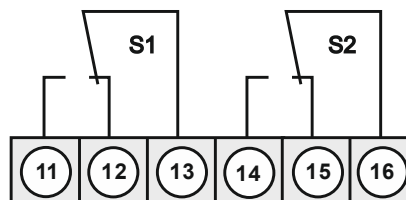
Supply 230 VAC

**IM1-6VR4B.0002.570xD** **201.20**

Supply 24 VDC

**IM1-6VR4B.0002.770xD** **211.80**

Option:



### • Product key options

IM	1-	6	V	R	4	B.	0	0	0	2.	5	7	0	x	D	EUR
IM	1-	6	V	R	4	B.	0	0	0	2.	7	7	0	x	D	
											2					31.80
											1					10.60
											X					
						B										35.00
						G										10.10
						Y										10.10

State physical unit by order, e.g. A!

### • Parameterisation software

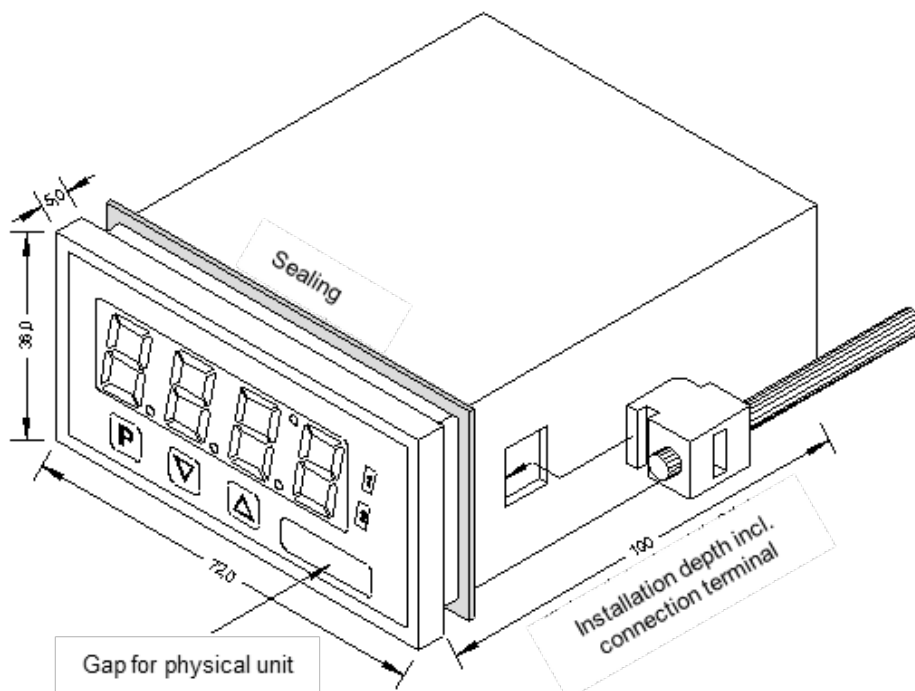
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming happens via an interface on the back.

**PM-TOOL-MUSB4** **94.30**

## • Technical data

<b>Dimensions</b>	Housing	B72 x H36 x D71 mm, (incl. plug-in terminal D = 100 mm)		
	Panel cut-out	68.0 <sup>+0.7</sup> x 32.0 <sup>+0.6</sup> mm		
	Fixing	screw elements for 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. 200 g		
	Connection	plug-in terminal; wire cross section up to 2.5 mm <sup>2</sup>		
<b>Display</b>	Display	4-digit		
	Digit height	14 mm		
	Segment colour	red (Standard), optional available in green, blue and orange		
	Range of display	-1999 to 9999		
	Threshold values	optical display flashing		
	Overflow	horizontal bars at the top		
	Underflow	horizontal bars at the bottom		
Display time/Meas. time	0.1 to 10.0 seconds			
<b>Measuring input</b>	Measuring span	-5...80 mV	/ -10...180 mV	
	Measuring range	0...60 mV	/ 0...150 mV	
	Input resistance	Ri with ~12 kΩ	/ Ri with ~30 kΩ	
	Measuring error	0.5% of measuring range, ± 1 Digit / 0.5% 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 1 sec measuring time		
	<b>Output</b>	Relay	with change-over contact 250 V / 5 AAC, 30 V / 5 VDC	
		Switching cycles	30 * 10 <sup>3</sup> with 5 AAC, 5 ADC ohm resistive load	
		10 * 10 <sup>6</sup> mechanically		
		Diversity according to DIN EN50178 / Characteristics according to DIN EN60255		
<b>Power pack</b>	Supply	230 VAC ±10% (max. 3 VA)		
		24 VDC ±10%, galvanic isolated (max. 1 VA)		
<b>Memory</b>	EEPROM	Data life ≥ 100 years at 25°C		
<b>Ambient conditions</b>	Working temperature	0 to +60°C		
	Storing temperature	-20 to +80°C		
	Climatic density	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:



• Product key

	IM	1-	6	V	R	4	B.	0	0	0	2.	7	7	0	x	D	
<b>Basic type M-line</b>																	
<b>Installation depth</b> 100 mm incl. plug-in terminal																	<b>Dimension</b> D physical unit (free selectable)
<b>Housing size</b> 72x36x71 mm (BxHxD)																	<b>Version</b> x internal version
<b>Display type</b> Current, voltage																	<b>Setpoints</b> 0 without 2 2 relay outputs
<b>Display colours</b> Blue Green Red Orange																	<b>Protection class</b> 1 without keypad, operation via PM-TOOL 7 IP65 / plug-in terminal
<b>Number of digits</b> 4-digit																	<b>Supply voltage</b> 5 230 VAC 7 24 VDC galv. isolated
<b>Digit height</b> 14 mm																	<b>Measuring input</b> 2 Shunt 0-60-150 mV
<b>Digital input</b> none																	<b>Analog output</b> 0 none
																	<b>Sensor supply</b> 0 none