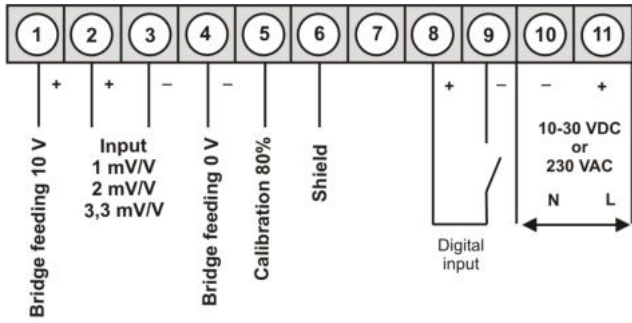




## **IM2 – 5-digit digital panel meter in 96x48 mm (BxH) Strain gauge-amplifier with 80% calibration for 350 $\Omega$ melt pressure sensors**

- red display of -19999...99999 digits (optional green, orange, blue or tricolour display)
- compact installation depth: 70 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min/max-memory with adjustable permanent display
- 30 additional adjustable supporting points
- display flashing at threshold value exceedance/undercut
- zero key for actuation of tara-function / hold-function or sensor alignment
- standard digital input for Hold, Tara or sensor alignment
- flexible alarm system with adjustable delay times
- mathematical functions like reciprocal value, square root, squaring and rounding
- sliding averaging
- brightness control
- programming interlock via access code
- protection class IP65 at the front
- plug-in screw terminal
- optional: 2 relay outputs
- 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

• **Strain gauge 4-wire with calibration**



Supply 230 VAC

**IM2-1MR5B.020X.570xD**

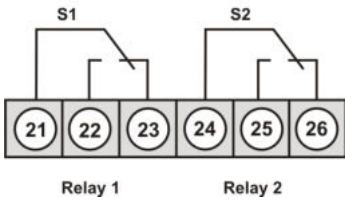
**259.50**

Supply 10-30 VDC

**IM2-1MR5B.020X.670xD**

**344.20**

**Options:**



• **Product key options**

IM	2-	1	M	R	5	B.	0	2	0	X.	5	7	0	x	D
IM	2-	1	M	R	5	B.	0	2	0	X.	6	7	0	x	D

**EUR**

2	2 relay outputs	35.00
1	Without keypad, operation via PC software PM-TOOL	10.60
4	Voltage supply 115 VAC	10.90
B	Blue	46.60
G	Green	10.10
Y	Orange	10.10
T	Tricolour (Red-Green-Orange)*	31.80

\*For devices with 230 VAC voltage supply there are no relay outputs available.

Please state physical unit on demand, e.g. Nm.

• **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.

**ORDER NUMBER**

**EUR**

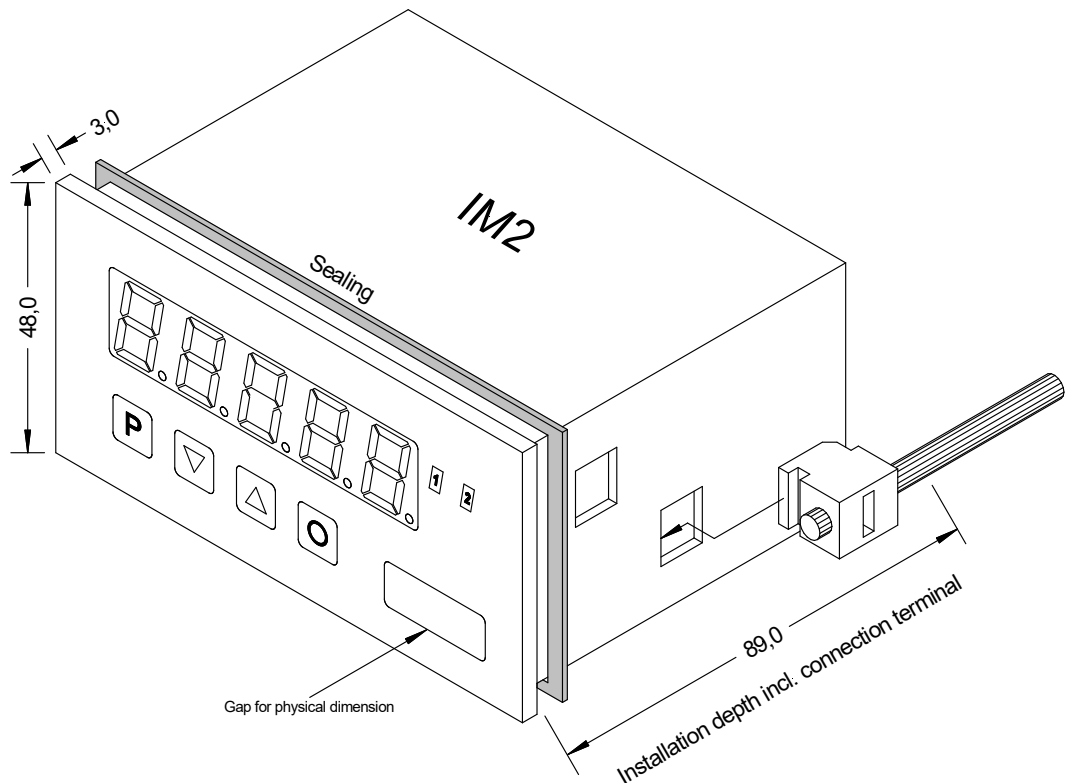
**PM-TOOL-MUSB4**

**94.30**

• **Technical data**

<b>Dimension</b>	Housing	B96 x H48 x D70 mm (including plug-in terminal D= 89 mm)
	Panel cut-out	92.0 <sup>+0.8</sup> x 45.0 <sup>+0.6</sup> mm
	Fixing	screw elements for insulation thickness up to 3 mm
	Housing material	PC Polycarbonate, black
	Sealing material	EPDM, 65 Shore, black
	Protection class	at the front IP65 standard, back side IP00
	Weight	approx. 250 g
	Connection	plug-in terminal; line cross-section up to 2.5 mm <sup>2</sup>
<b>Display</b>	Display	5-digit
	Digit height	14 mm
	Segment colour	red (standard), optional available in green, blue, orange or tricolour (red/green/orange)
	Display range	-19999 to 99999
	Setpoints	optical display flashing
	Overflow	horizontal bars at the top
	Underflow	horizontal bars at the bottom
Display time	0.1 to 10.0 seconds	
<b>Measuring input</b>	Sensor sensitivity	1 mV/V, 2 mV/V, 3.3 mV/V, free to 4 mV/V with 80% calibration
	Sensor alignment	always required
	Measuring fault	0.2% of measuring range in controlled electromagnetic environment 1 % of measuring range in industrial environment with a strong disturbing source
	Drift of temperature	100 ppm/K
	Measuring time	0.1 ... 10.0 seconds
	Measuring principle	U/F-converter
Resolution	approx. 18 bit at 1 second measuring time, 3.3 mV/V of measuring range	
<b>Output</b>	Relay	with change-over contact 250 V / 5 AAC, 30 V / 5 ADC
	Switching cycle	30 * 10 <sup>3</sup> at 5 AAC, 5 ADC ohm resistive burden 10 * 10 <sup>6</sup> mechanically Separation in accordance with DIN EN 50178 / Specifications in accordance with DIN EN 60255
<b>Digital input</b>	Input galv. isolated	< 2.4 OFF; > 10 V ON; max. 30 VDC, Ri at ~ 5 kΩ
<b>Power pack</b>	Supply	230 VAC 50/60 Hz ±10 % (max. 10 VA) 10-30 VDC, galvanic isolated (max. 4 VA)
	Memory	EEPROM
<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:**



• Order key

	IM	2-	1	M	R	5	B.	0	2	0	X.	5	7	0	x	D	
<b>Basic type M-Line</b>																	<b>Dimension</b>
																	<input type="checkbox"/> D physical unit
<b>Installation depth</b>																	<b>Version</b>
89 mm (incl. plug-in terminal)																	<input type="checkbox"/> x internal version
<b>Housing size</b>																	<b>Switching points</b>
96x48x70 mm (BxHxD)																	<input type="checkbox"/> 0 no switching point
																	<input type="checkbox"/> 2 2 relay outputs
<b>Display type</b>																	<b>Protection class</b>
Melt pressure																	<input type="checkbox"/> 1 without keypad, operation via PM-TOOL
																	<input type="checkbox"/> 7 IP65 / plug-in terminal
<b>Display colours</b>																	<b>Supply voltage</b>
Blue																	<input type="checkbox"/> 4 115 VAC
Green																	<input type="checkbox"/> 5 230 VAC
Red																	<input type="checkbox"/> 6 10-30 VDC galv. isolated
Red/Green/Orange																	
Orange																	
<b>Number of digits</b>																	<b>Measuring input</b>
5-digit																	<input type="checkbox"/> X 1 mV/V – 3.3 mV
<b>Digit height</b>																	<b>Analog output</b>
14 mm																	<input type="checkbox"/> 0 without
<b>Interface</b>																	<b>Bridge supply</b>
without																	<input type="checkbox"/> 2 10 VD / 20-40 mA, incl. digital input