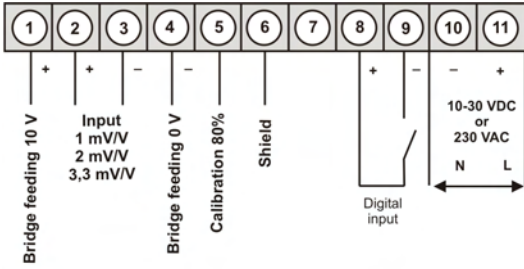




M2 – 5-digit digital panel meter in 96x48 mm (BxH) Strain gauge-amplifier with 80% calibration for 350 Ω melt pressure sensors

- 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- /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



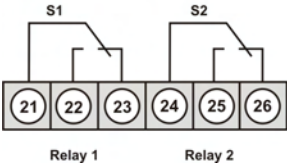
Supply 230 VAC

Supply 10-30 VDC

M2-1MR5B.020X.570CD

M2-1MR5B.020X.670CD

Options:



• Product key options

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

EUR

2	2 relay outputs
1	Without keypad, operation on the back
4	Voltage supply 115 VAC
B	Blue
G	Green
Y	Orange
T	Tricolour (Red-Green-Orange)*

*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 is made via an interface on the back.

ORDER NUMBER

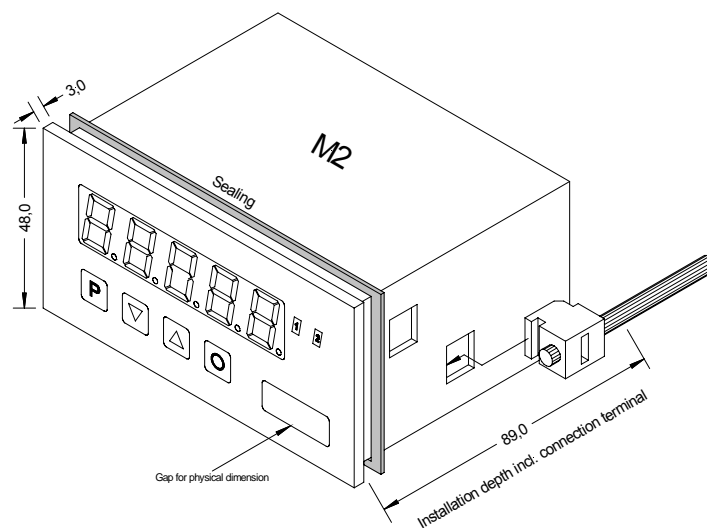
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PM-TOOL-MUSB4

• Technical data

Dimension	Housing	B96 x H48 x D70 mm (including plug-in terminal D= 89 mm)
	Panel cut-out	92.0 ^{+0.8} x 45.0 ^{+0.6} 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 ²
Display	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
Measuring input	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 1second measuring time, 3,3 mV/V of measuring range
	Output	Relay
Switching cycle		30 * 10 ³ at 5 AAC, 5 ADC ohm resistive burden 10 * 10 ⁶ mechanically Separation in accordance with DIN EN 50178 / Specifications in accordance with DIN EN 60255
Digital input	Input galv. insulated	< 2.4 OFF; > 10 V ON; max. 30 VDC, Ri at ~ 5 kΩ
Power pack	Supply	230 VAC 50/60 Hz +/- 10 % (max. 10 VA) 10-30 VDC, galvanic insulated (max. 4 VA)
	Memory	EEPROM
Ambient conditions	Working temperature	0 to + 60 °C
	Storing temperature	-20 to + 80°C
	Climatic density	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	2-	1	M	R	5	B.	0	2	0	X.	5	7	0	C	D	
Basic type M-Line																	Dimension
Installation depth 89 mm (incl. plug-in terminal)																	<input type="checkbox"/> D physical unit
Housing size 96x48x70 mm (BxHxD)																	Version <input type="checkbox"/> C C
Display type Melt pressure																	Switching points <input type="checkbox"/> 0 no switching point <input type="checkbox"/> 2 2 relay outputs
Display colours Blue Green Red Red/Green/Orange Orange																	Protection class <input type="checkbox"/> 1 without keypad, operation on the back <input type="checkbox"/> 7 IP65 / plug-in terminal
Number of digits 5-digit																	Supply voltage <input type="checkbox"/> 4 115 VAC <input type="checkbox"/> 5 230 VAC <input type="checkbox"/> 6 10-30 VDC galv. insulated
Digit height 14 mm																	Measuring input <input type="checkbox"/> X 1 mV/V – 3.3 mV
Interface without																	Analog output <input type="checkbox"/> 0 without <input type="checkbox"/> X 0-10 VDC, 0/4-20 mA
																	Bridge supply <input type="checkbox"/> 2 10 VD / 20-40 mA, incl. digital input