



IPM5 – 5-digit digital panel meter in 96x48 mm (BxD) Strain gauge amplifier with 80% calibration for 350 Ω melt pressure sensors

- red display of -19999...99999 digits; 14 mm digit height
- installation depth: 120 mm without plug-in screw terminal
- DMS-4-wire measurement
- adjustable input amplification for 1 mV/V-, 2 mV/V- or 3.3 mV/V-sensors
- integrated bridge supply for standard 350 Ω measuring bridges
- permanent wire breackage monitoring
- bipole input range for pressure and tractive forces
- integrated factory calibration for preset weighing cells
- auto-sensor recognition for 1 mV/V, 2 mV/V and 3.3 mV/V-sensors
- measuring rate with up to 100 measurements/s (measuring time is adjustable from 0.01s...10.00s)
- 24 bit transducer resolution, of which 19 bit are noiseless (500,000 / 0.0002% of measuring range)
- high long-term and temperature stability
- free selectable scaling and decimal point adjustment
- sensor alignment with 30 additional support points
- taring-function for manual and automatic control
- full automatic or semi-automatic calibration functions
- min/max-memory with adjustable permanent display
- · display flashing at threshold exceedance / undercut
- flexible alarm system with adjustable delay times
- programming interlock via access code
- protection class IP65 at the front side
- plug-in screw terminal
- optional: 2 or 4 relay outputs
- optional: independently scalable analog output
- optional: interface RS232 or RS485
- accessories: PC-based configuration-kit PM-TOOL with CD & USB-adapter

ORDERING NUMBER EUR (without options)

• 4-wire technology for strain gauge amplifier

Supply 100-240 VAC / DC ±10%	PM5.020X.1S70D	474.40

Supply 10-40 VDC / 18-30 VAC PM5.020X.1W70D 529.50



• Product key options

IP	м	5.	0	2	0	Х.	1	s	7	0	D			EUD
IP	м	5.	0	2	0	X.	1	w	7	0	D			LOK
												2	2 relay outputs	53.00
		4	4 relay outputs	68.80										
		Х	Analog output 0-10 VDC / 0/4-20 mA	127.10										
		3	Interface RS232 with galvanic isolation	63.50										
												4	Interface RS485 with galvanic isolation	63.50

On demand state dimension unit on order, e.g. kN.

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

Dimensions	Housing	B96 x H48 x D120 mm, including plug-in terminal D = 139mm
	Panel cut-out	92.0 ^{+0.8} x 45.0 ^{+0.6} mm
	Housing material	PC polycarbonate, black
	Protection class	at the front IP65 standard, at the back IP00
	Weight	approx. 350 g
	Connection	plug-in terminal; wire cross-section up to 2.5 mm ²
Display	Display	5-digit
	Digit height	14 mm, segment colour: red
	Display range	-9999 to 99999
	Overflow	horizontal bars at the top
	Underflow	horizontal bars at the bottom
	Display time	0.1 to 10.0 seconds
Measuring input	Measuring range	+ 6 mV/V
	(adjustable)	± 3.3 mV/V
		± 2 mV/V
	Measuring accuracy	± 1 mV/V 0.002% of measuring range – under laboratory conditions
	(at 1s measuring time)	0.1% of measuring range – in electromagnetic controlled surroundings
	(3 /	0.75% of measuring range – in industrial area
	Measuring bridge	200 Ω500 Ω
	Bridge supply	approx. 10 VDC
	Drift of temperature	20 ppm/K
	Measuring principle	Sigma/Delta
	Measuring rate	0.01s10.00s
	Resolution	24 dit, max. 19 dit RMS
Output	Relay	with change-over contact 250 V / 5 AAC, 30 V / 5 ADC
	Switching cycles	30 * 10 ³ at 5 AAC, 5 ADC ohm resistive burden, 10 * 10 ⁶ mechanically
	Analog output	Division according to DIN EN50178 / Characteristics according to DIN EN 60255 0.10 VDC burden > 10 kO 0/4-20 mA burden < 500 O 16 bit
	Analog output	
Digital input	Input galv. isolated	<2.4 V OFF; >10 V ON; max. 30 VDC, $R_{\rm l}\sim$ 5 k Ω , respectively 15 V contact supply
Interface	Protocol	ASCII manufacturer-specific
	RS232 RS485	9.600 Baud, no parity, 8 DataBit, 1 StopBit, wire length max. 3 m
	10400	
Power pack	Supply	100-240 VAC 50/60 Hz, DC ±10% (max. 15 VA) 10-40 VDC galv_isolated_18-30 VAC 50/60 Hz (max_15 VA)
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Memory	EEPROM	Data life ≥ 100 years at 25°C
Ambient conditions	Working temperature	0 to +50°C
	Storing temperature	-20 to +80°C
	Weathering resistance	relative humidity 0-85% on years average without dew
CE-sign	Conformity according to di	rective 2014/30/EU
EMV	EN 61326, EN 55011	
Safety standard	EN 61010	
Housing		
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		Gap for physical unit

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Ordering code

