

PM5 – 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 USB-adapter

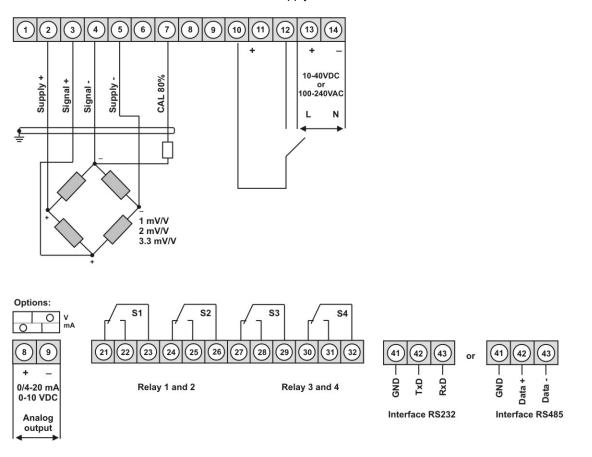
96x

ORDERING NUMBER EUR (without options)

• 4-wire technology for strain gauge amplifier

Supply 100-240 VAC / DC ±10%	PM5.020X.1S70D	474.40
	I MOULON. IOIOD	7/7.70

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



• Product key options

F	M	5.	0	2	0	Х.	1	s	7	0	D			
F	м	5.	0	2	0	Χ.	1	w	7	0	D			EUR
												D	Dimension/physical unit, customer-specific settings	20.00
				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		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. USB-adapter. Programming happens via an interface on the back.

PM-TOOL-MUSB4 94.30

• Technical data

Dimensions	Housing Panel cut-out Fixing Housing material Protection class Weight Connection	B96 x H48 x D120 mm, including plug-in terminal D = 139mm 92.0 ^{+0.8} x 45.0 ^{+0.6} mm latchable screw element for a wall thickness up to 15 mm PC polycarbonate, black at the front IP65 standard, at the back IP00 approx. 350 g plug-in terminal; wire cross-section up to 2.5 mm ²
Display	Display Digit height Display range Switching points Overflow Underflow Display time	5-digit 14 mm, segment colour: red -9999 to 99999 one LED per switching point horizontal bars at the top horizontal bars at the bottom 0.1 to 10.0 seconds
Measuring input	Measuring range (adjustable)	± 6 mV/V ± 3.3 mV/V ± 2 mV/V ± 1 mV/V
	Measuring accuracy (at 1s measuring time) Measuring bridge Bridge supply Input resistance signal Drift of temperature Measuring principle Measuring rate Resolution	0.002% of measuring range – under laboratory conditions 0.1% of measuring range – in electromagnetic controlled surroundings 0.75% of measuring range – in industrial area 200 Ω 500 Ω approx. 10 VDC approx. 5 k Ω 20 ppm/K Sigma/Delta 0.01s10.00s 24 bit, max. 19 bit RMS
Output	Relay Switching cycles 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 Division according to DIN EN50178 / Characteristics according to DIN EN 60255 0-10 VDC burden \geq 10 k Ω , 0/4-20 mA burden \leq 500 Ω , 16 bit
Digital input	Input galv. isolated	<2.4 V OFF; >10 V ON; max. 30 VDC, $R_{\rm l}$ ~ 5 k $\Omega,$ respectively 15 V contact supply
Interface	Protocol RS232 RS485	ASCII manufacturer-specific 9.600 Baud, no parity, 8 DataBit, 1 StopBit, wire length max. 3 m 9.600 Baud, no parity, 8 DataBit, 1 StopBit, wire length max. 1000 m
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)
Memory	EEPROM	Data life ≥ 100 years at 25°C
Ambient conditions	Working temperature Storing temperature Weathering resistance	0 to +50°C -20 to +80°C relative humidity 0-85% on years average without dew
CE-sign EMV Safety standard	Conformity according to dir EN 61326, EN 55011 EN 61010	rective 2014/30/EU
Housing		
		Physical unt resultation doptin red. connection territrial (39.0)

• Ordering code

