

# PW5 – 5-digit digital panel meter in 96x48 mm (BxD) Strain gauge amplifier weighing technology 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-6-wire measurement
- adjustable input amplification for 1 mV/V-, 2 mV/V- or 3.3 mV/V-sensors
- integrated bridge supply for standard 350  $\Omega$  (280-5.000  $\Omega)$  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
- $\bullet \ \text{measuring rate with up to 100 measurements/s (measuring time is adjustable from 0.01s...10.00s)}\\$
- 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



## • 6-wire technology for strain gauge amplifier

Supply 100-240 VAC / DC  $\pm 10\%$ 

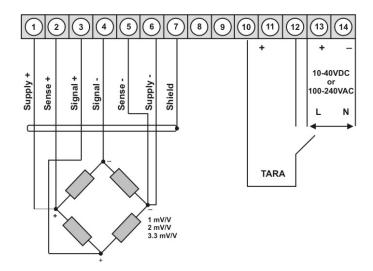
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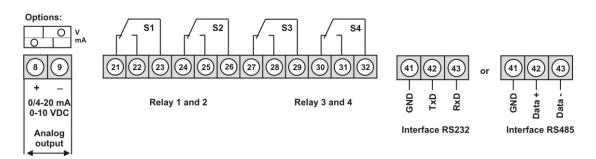
474.40

Supply 10-40 VDC / 18-30 VAC

PW5.020X.1W70D

529.50





### • Product key options

Р	w	5.	0	2	0	X.	1	s	7	7	0	D			EUR
P	w	5.	0	2	0	X.	1	w	7	7	0	D			LOIX
													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	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** B96 x H48 x D120 mm, including plug-in terminal D = 139mm Housing

92.0<sup>+0.8</sup> x 45.0<sup>+0.6</sup> mm Panel cut-out

latchable screw element for a wall thickness up to 15 mm Fixing

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<sup>2</sup>

Display Display 5-diait

Digit height 14 mm, segment colour: red

Display range -9999 to 99999

Switching points one LED per switching point 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

 $\pm$  3.3 mV/V (adjustable) ± 2 mV/V

± 1 mV/V

Measuring accuracy 0.002% of measuring range - under laboratory conditions

(at 1s measuring time) 0.1% of measuring range - in electromagnetic controlled surroundings

0.75% of measuring range - in industrial area

280 Ω...5000 Ω Measuring bridge Bridge supply approx. 10 VDC Input resistance signal > 10 MΩ 20 ppm/K Drift of temperature Measuring principle Sigma/Delta Measuring rate 0.01s...10.00s

24 bit, max. 19 bit RMS Resolution

with change-over contact 250 V / 5 AAC, 30 V / 5 ADC Output Relay

Switching cycles 30 \* 10<sup>3</sup> at 5 AAC, 5 ADC ohm resistive burden, 10 \* 10<sup>6</sup> mechanically

Division according to DIN EN50178 / Characteristics according to DIN EN 60255

Analog output 0-10 VDC burden ≥ 10 k $\Omega$ , 0/4-20 mA burden ≤ 500  $\Omega$ , 16 bit

<2.4 V OFF; >10 V ON; max. 30 VDC,  $R_1 \sim 5 \text{ k}\Omega$ , respectively 15 V contact supply **Digital input** Input galv. isolated

Interface Protocol ASCII manufacturer-specific

RS232 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 RS485

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)

**EEPROM** Data life ≥ 100 years at 25°C Memory

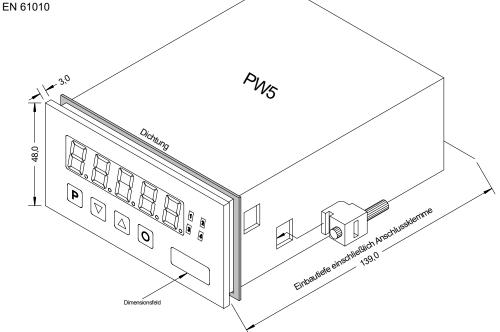
**Ambient conditions** Working temperature 0 to +50°C

Storing temperature -20 to +80°C

Weathering resistance relative humidity 0-85% on years average without dew

CE-sign Conformity according to directive 2014/30/EU **EMV** EN 61326, EN 55011 Safety standard

Housing:



### • Ordering code

