Messtechnik • Prozessinstrumentierung • Prüf- und Kalibriertechnik
Measurement • Process Instrumentation • Test and Calibration Equipment

ICS SCHNEIDER MESSTECHNIK

IPW5 – 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 Ω (280-5.000 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

ICS Schneider Messtechnik GmbH   Tel.: 03303 / 50 40 66   info@ics-schneider.de
Briesestraße 59   Fax.: 03303 / 50 40 68   www.ics-schneider.de
D-16562 Hohen Neuendorf / OT Bergfelde

- **6-wire technology for strain gauge amplifier**

	ORDERING NUMBER (without options)	EUR
Supply 100-240 VAC / DC ±10%	**IPW5.020X.1S70D**	**474.40**
Supply 10-40 VDC / 18-30 VAC	**IPW5.020X.1W70D**	**529.50**
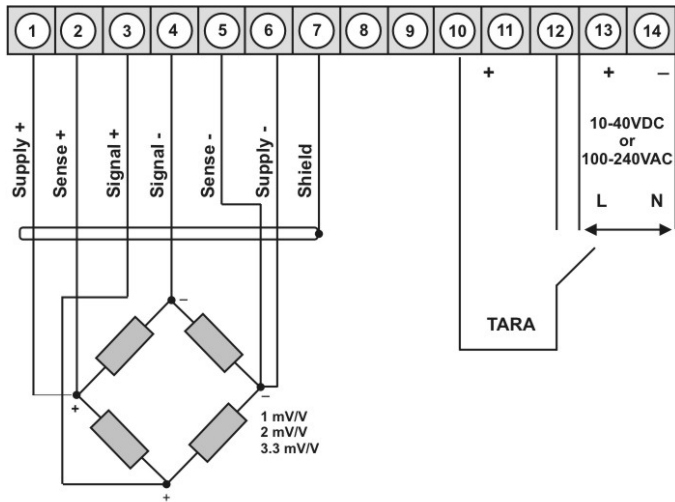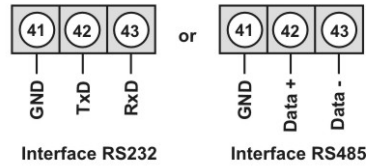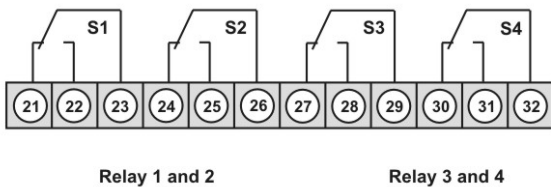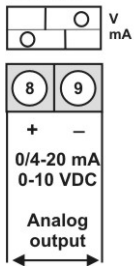
- **Product key options**

IP	W	5.	0	2	0	X.	1	S	7	0	D			EUR
IP	W	5.	0	2	0	X.	1	W	7	0	D			
												2	2 relay outputs	53.00
												4	4 relay outputs	68.80
												X	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**

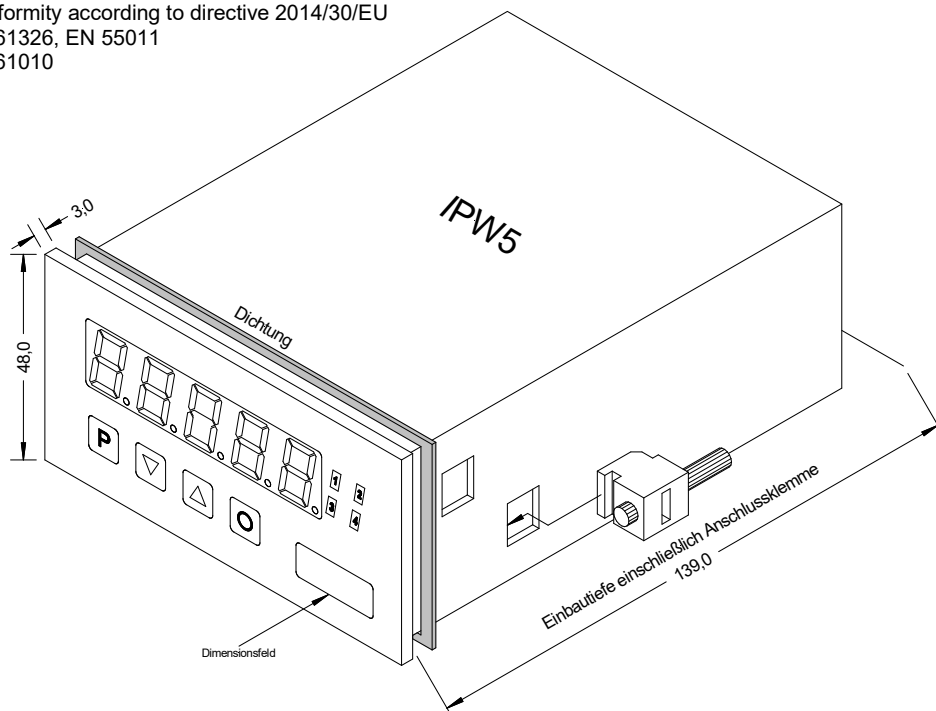|	ORDERING NUMBER	EUR
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming happens via an interface on the back.	**PM-TOOL-MUSB4**	**94.30**

Update 01/01/2023 -
Ipw5_96x48_gb.doc Errors and
omissions excepted.

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• 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
	Fixing	latchable screw element for a wall thickness up to 15 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
	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
	(adjustable)	± 3.3 mV/V
		± 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
	Measuring bridge	280 Ω…5000 Ω
	Bridge supply	approx. 10 VDC
	Input resistance signal	> 10 MΩ
	Drift of temperature	20 ppm/K
	Measuring principle	Sigma/Delta
	Measuring rate	0.01s…10.00s
	Resolution	24 bit, max. 19 bit 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
		Division according to DIN EN50178 / Characteristics according to DIN EN 60255
	Analog output	0-10 VDC burden ≥ 10 kΩ, 0/4-20 mA burden ≤ 500 Ω, 16 bit
Digital input	Input galv. isolated	<2.4 V OFF; >10 V ON; max. 30 VDC, R$_I$ ~ 5 kΩ, respectively 15 V contact supply
Interface	Protocol	ASCII manufacturer-specific
	RS232	9.600 Baud, no parity, 8 DataBit, 1 StopBit, wire length max. 3 m
	RS485	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	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	EN 61010	

Housing:

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Errors and omissions excepted.

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● Ordering code

	IP	W.	5	0	2	0	X.	1	S	7	0	D

Processor device

Base
6-wire technology — W

Number of digits
5 digits — 5

Interface
no interface — 0
RS232 (galv. isolated) — 3
RS485 (galv. isolated) — 4

Sensor supply
Bridge supply 10 VDC — 2

Outputs
no output — 0
0-10 V, 0-20 mA, 4-20 mA — X

Version
D — Version D

Setpoints
0 — no setpoint
2 — 2 relay outputs
4 — 4 relay outputs

Mechanical options
7 — IP65, foil keyboard, plug-in terminal

Power supply
S — 100-240 VAC
W — 10-40 VDC

Size of housing
1 — 96x48 mm (BxH)

Measuring input
X — 1 mV/V, 2 mV/V, 3.3 mV/V