



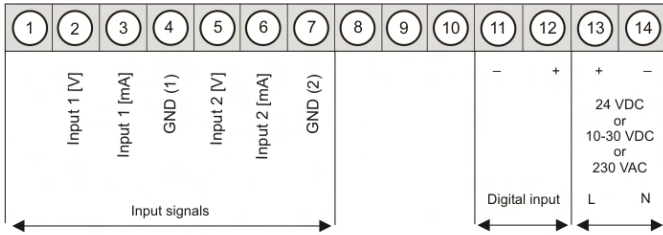
PZ5- 5digit digital panel meter in 96x48 mm (BxH) Two direct voltage/direct current signals 10 VDC, 0/4-20 mA, with calculation

- red display of -9999...99999 Digits
- installation depth: 134 mm without plug-in screw terminal
- digit height 14 mm
- two independently adjustable analog outputs
- calculation of the channels by addition, subtraction, multiplication or division
- manual or automatic switching between channels and calculation channel
- resolution 24 bit
- up to 100 measurements/s respectively 50 measurements/s, 2 channels
- adjustment via factory settings or directly via sensor signal
- min/max-memory
- 30 additional adjustable support points per channel
- permanent wire breakage control
- display flashing at threshold value exceedance / undercut
- zero key for the triggering of Hold, Tara, channel switching
- galv. insulated digital input for the triggering of Hold, Tara or channel switching
- flexible alarm system with adjustable delay times
- programming interlock via access code
- protection class IP54 at the front
- optional: plug-in screw terminal
- optional protection class IP65 at the front
- optional: 2 or 4 relay outputs
- optional: sensor supply
- optional: 1 independently scalable analog output
- optional: interface RS232 or RS485
- accessory: PC-based configuration kit PM-TOOL incl. CD & USB-adapter

• Two measuring inputs – direct voltage, direct current

Power supply 230 VAC

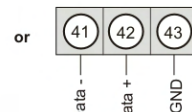
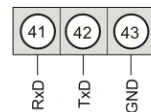
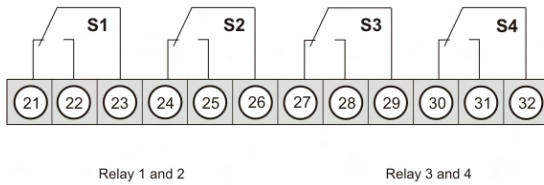
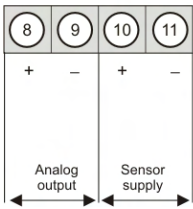
PZ5.0001.1540C



Power supply 24 VDC
(galv. insulated)

PZ5.0001.1740C

Options:



Interface RS232

Interface RS485

• Product key options

P	Z	5.	0	0	0	X.	1	5	4	0	C
P	Z	5.	0	0	0	X.	1	7	4	0	C

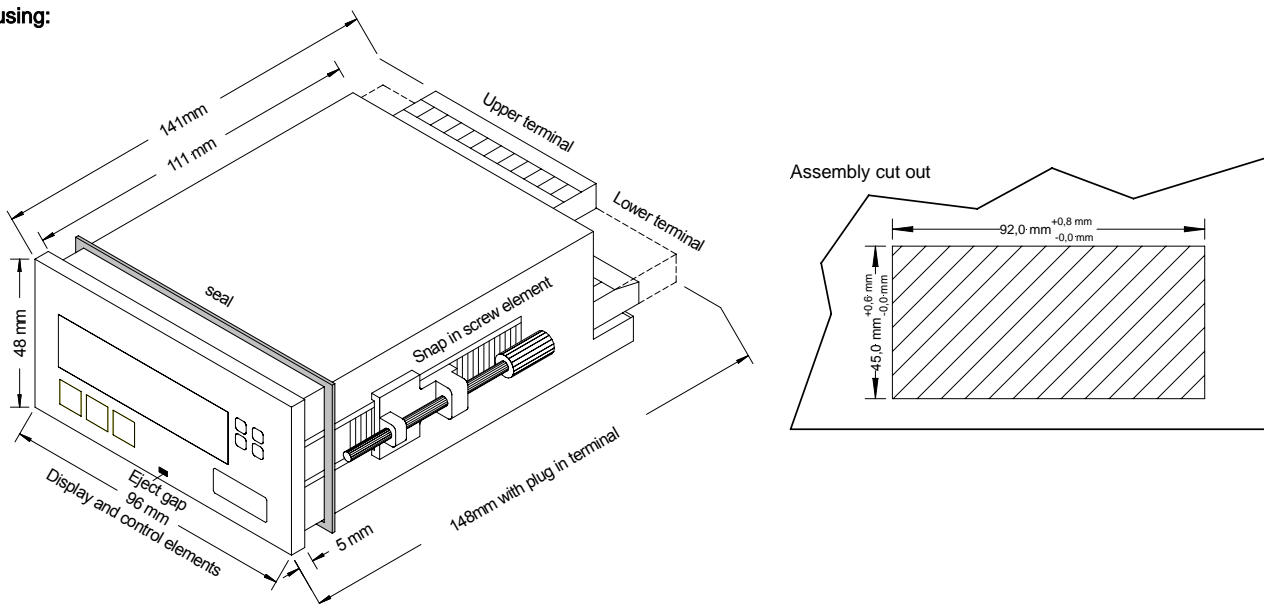
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2	2 relay outputs
4	4 relay outputs
1	Protection class IP65 at the front
7	Protection class IP65 at the front and plug-in terminal
9	Plug-in terminal
4	Voltage supply 115 VAC
1	Analog output 0-10 VDC with 230 VAC / 115 VAC Analog output 0-10 VDC with 24 VDC
2	Analog output 0-20 mA with 230 VAC / 115 VAC Analog output 0-20 mA with 24 VDC
3	Analog output 4-20 mA with 230 VAC / 115 VAC Analog output 4-20 mA with 24 VDC
2	Sensor supply 10 VDC / 20 mA with 230 VAC / 115 VAC Sensor supply 10 VDC / 20 mA with 24 VDC
3	Sensor supply 24 VDC / 50 mA with 230 VAC / 115 VAC Sensor supply 24 VDC / 50 mA with 24 VDC
2	Interface RS232 without galvanic insulation
3	Interface RS232 with galvanic insulation with 230 VDC / 115 VAC Interface RS232 with galvanic insulation with 24 VDC
4	Interface RS485 with galvanic insulation with 230 VDC / 115 VAC Interface RS485 with galvanic insulation with 24 VDC

• **Technical data**

Dimensions	Housing Panel cut-out Fixing Housing material Protection class Weight Connection	B96 x H48 x D143 mm, including plug-in terminal 92.0 ^{+0.8} x 45.0 ^{+0.6} mm latchable screw element for a wall thickness of up to 50 mm PC/ABS-Blend, black, UL94V-0 at the front IP54 standard, at the back IP00 approx. 450 g plug-in terminal; cable 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 up to 99999 one LED per switching horizontal bars at the top horizontal bars at the bottom 0.2 to 10.0 seconds (0.05... 10 seconds at an one-channel measurement)
Measuring input	Measuring range Input resistance Measuring error Drift of temperature Measuring time Measuring principle Resolution	0-10 VDC and 0/4-20 mA 0-10 VDC: Ri = ~150 kΩ 0/4-20 mA: Ri = ~50 Ω 0.02% of measuring range + 0.01% of measuring value, ± 1 Digit at 1 sec measuring time all measuring inputs 50 ppm/K, at T _U < 20°C respectively > 40°C one channel: 0.01...10.00 seconds two channels: 0.02...10.00 seconds Sigma/Delta 24 Bit
Output	Relay Switching cycles Analog output (galv. insulated) Sensor supply	with change-over contact 250 V / 5 AAC, 30 V / 5 ADC 30 * 10 ³ at 5 AAC, 5 ADC with ohm resistive burden, 10 * 10 ⁶ mechanically Division according to DIN EN50178 / Characteristics according to DIN EN 60255 0-10 VDC (12 bit) burden ≥ 100 kΩ, 0-20 mA (12 bit) burden ≤ 500 Ω 4-20 mA (12 bit) burden ≤ 500 Ω 10 VDC / 20 mA; 24 VDC / 50 mA
Digital input	Input galv. insulated	< 2,4 V OFF; 10 V ON; max. 30 VDC, R _I ~ 5 kΩ
Interface	Protocol RS232 RS485	ASCII manufacturer-specific 9.600 Baud, no parity, 8 DataBit, 1 StopBit, cable length, max. 3 m 9.600 Baud, no parity, 8 DataBit, 1 StopBit, cable length, max. 1000 m
Power supply	Supply	230 VAC 50/60 Hz/± 10 % (max. 15 VA) 115 VAC 50/60 Hz/± 10 % (max. 15 VA) 24 VDC /± 10 % galv. insulated (max. 15 VA)
Memory	EEPROM	Data life ≥ 100 years at 25°C
Ambient conditions	Working temperature Storing temperature Weathering resistance	0°C to + 50 °C -20°C to + 80°C relative humidity 0-85% on years average without dew
CE-sign	Conformity according to directive 2004/108/EG	
EMV	EN 61326, EN 55011	
Safety regulations	According to low voltage directive 2006/95/EG, EN 61010; EN 60664-1	

Housing:



• Ordering code

		P	Z	5	0	0	0	1	1	5	4	0	C
Processor-based device													Internal index
Type of display two inputs	Z												Switching points 0 no switching point 2 2 relay outputs 4 4 relay outputs
Number of digits 5-digit	5												Mechanical options 1 IP65, keypad, screw terminal 4 IP54, keypad, screw terminal 7 IP65, keypad, plug-in terminal 9 IP54, keypad, plug-in terminal
Interface none RS232 (galv. not insulated) RS232 (galvanic insulated) RS485 (galvanic insulated)	0 2 3 4												Voltage supply 4 115 VAC 5 230 VAC 7 24 VDC (galvanic insulated)
Sensor supply none 10 V / 20 mA 24 V / 50 mA	0 2 3												Housing dimension 1 96x48 mm (BxH)
Analog output none 0-10 V 0-20 mA 4-20 mA	0 1 2 3												Measuring input 1 Voltage, current