



Description:

PAKKENS MPS-10 Pressure Transmitter has been developed for accurate measurements in various industrial applications. The wide measurement range, commonly used signal output, high resistance to overpressure, and low nonlinearity value make it a reliable and robust product for the pressure measurement of fluids that do not attack Ceramic and AISI 316L.

Industrial Applications:

Process control, industrial robots, machine building, hydraulics and pneumatics, pumps and compressors, building services, HVAC systems, water and waste water treatment systems

General Specifications:

Measurement Range:
From 0...0.5 bar to 0...600bar

Measuring Method:
Relative

Sensor Type:
Piezoresistive (Monolithic/Flush Diaphragm - Sealed Sensor)

Sensor Material:
Ceramic

Casing:
Monoblock AISI 316L

Non-Linearity:
≤±0.5 % of F.S (Optional: ≤±0.1 %)

Long-term Stability:
≤±0.3 % of F.S/year

Service Life:
10 million cycles

Output Signal:
2-wire/4...20 mA

Output Type:
Current Loop

Voltage Supply:
9-35 V

Operating Temperature:
-25...125 °C

Storage Temperature:
-40...135 °C

Response Time:
< 0.5 ms

Shock Resistance:
50g

Vibration Resistance:
20g

Free-fall Resistance:
h=1 m to concrete surface

ROHS Compliance:
Yes

Ingress Protection Rate:
IP65

Reverse Polarity Protection:
Built-in

Overpressure Resistance and Vacuum Capability:

	Pressure (bar)																
Nominal	0,5	1	1,6 ¹	2,5 ¹	4 ¹	5	6 ¹	10	16	20	25 ¹	40 ¹	50	100	200	250	400
Overpressure	1	2	4	10	10	10	10	20	40	40	40	100	100	150	300	375	500
Vacuum	-0,1	-0,5	-0,8	-0,9	-0,9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

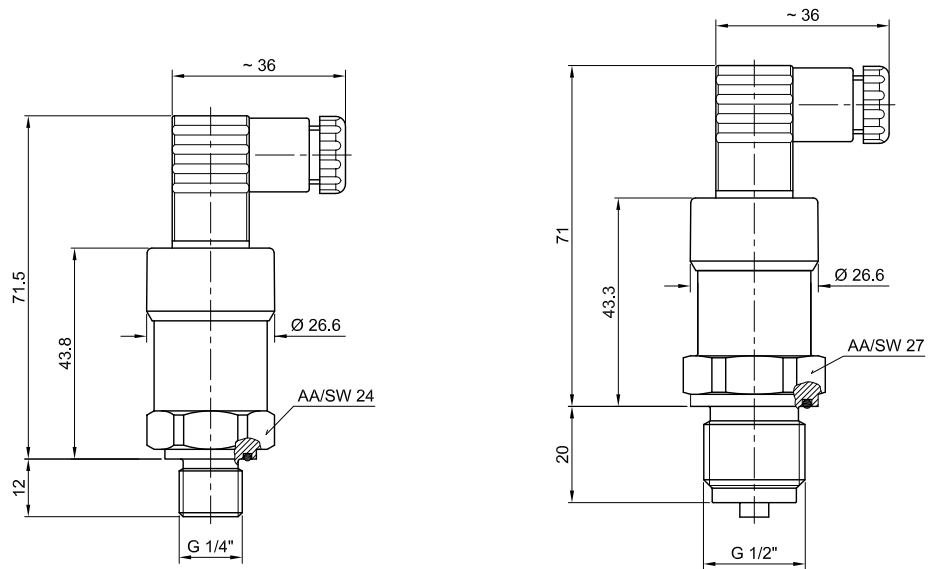
1- Sensor Type is Monolithic for these pressure values.

Accuracy and Temperature Drift:

Pressure (bar)	0,5	1	1,6	2,5	4	5	6	10	16	20	25	40	50	100	200	250	400
Accuracy	25 °C	1.5			1.0								1.5				
	0...85 °C	1.5			1.4			1.6		1.8		2.4		2.4			
	-10...105 °C	1.8			1.7			1.8		2.2		2.6		2.6			
	-25...125 °C	2.2			2.0			2.2		2.5		3.5		3.5			

Accuracy includes non-linearity, hysteresis, and non-repeatability at reference conditions. (IEC 61298-1)

Dimensions in mm:

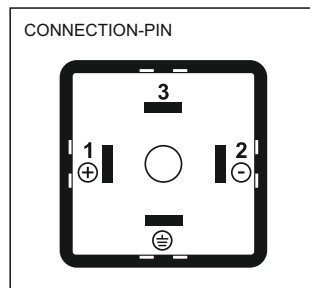
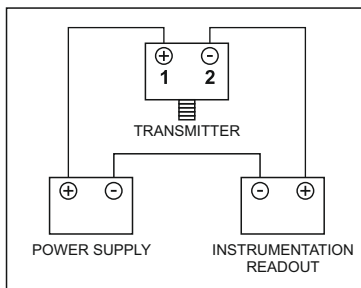


Thread connections can be either G1/4" or G1/2" upon request. (EN-837)

Standard sealings are made up of Viton <60 bar and NBR >60 bar

The minimum permissible medium and ambient temperature for those is -30 °C

Electrical Connection Scheme:



Standard:
DIN 175301-803 A

Reverse Polarity Protection:
UB(1) vs. 0V(2)
UB: Positive power supply terminal, 0V: Negative power supply terminal

Total Current Consumption:
<30 mA

Electrical Connector Material:
PBT GF 30

Approvals:

- Turkish Standards Institution
- ISO 9001 Quality Management System
- TÜRKAK Calibration Laboratory Accreditation Certificate
- EU Declaration of Conformity
0036
- Restriction of Hazardous Substances Directive
- Metrology Measurement Technology

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