



MPS

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:

$\leq \pm 0.5$ % of F.S (Optional: $\leq \pm 0.1$ %)

Long-term Stability:

$\leq \pm 0.3$ % 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	600
Overpressure	1	2	4	10	10	10	10	20	40	40	40	100	100	150	350	350	500	750
Vacuum	-0,1	-0,5	-0,8	-0,9	-0,9	-1	-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	600
Accuracy	25 °C	1.5							1.0										1.5
	0...85 °C	1.5							1.4				1.6		1.8	2.4		2.8	
	-10...105 °C	1.8							1.7				1.8		2.2	2.6		3.2	
	-25...125 °C	2.2							2.0				2.2		2.5	3.1		3.5	

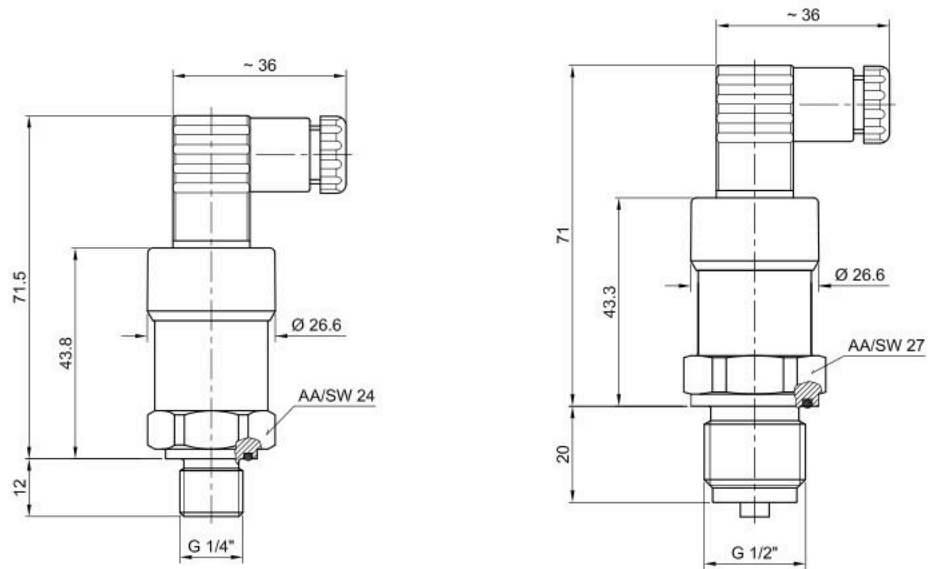
Accuracy includes non-linearity, hysteresis, and non-repeatability at reference conditions. (IEC 61298-1)

Dimensions in mm:

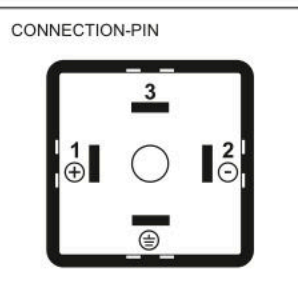
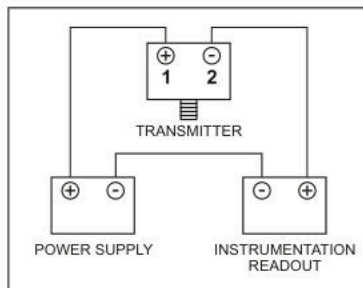
Thread connections can be either G1/4" or G1/2" upon request. (EN-837)

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

2014/68/EU Pressure Equipment Directive - Certificate of Conformity

2011/65/EU Restriction of Hazardous Substances Directive - Declaration of Conformity

Gost Certificate

According to the provisions of Law No. 5846 on Intellectual and Artistic Works, quotations, drawings, pictures, schemes, graphics etc. cannot be reproduced without permission of PAKKENS A.Ş. If the crimes in question are committed, they will be subject to criminal sanctions under 71st and other provisions of the same law.

Copyright © 2020 PAKKENS, All rights reserved.