



### Description:

PAKKENS MPS-20 pressure transmitter has been designed for accurate measurements in different industrial applications. The wide measurement range, commonly used signal output, high overpressure resistance, and low non-linearity value make it a reliable product for the pressure measurement of fluids that do not corrode 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...6 bar to 0...600bar

**Measuring Method:**

Relative

**Sensor Type:**

Metal Thin Film Sensor

**Sensor Material:**

AISI 316L

**Casing:**

Monoblock AISI 316L

**Non-Linearity:**

≤0.5 % of F.S

**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:**

8-30 V

**Operating Temperature:**

-30...100 °C

**Storage Temperature:**

-30...100 °C

**Overpressure Resistance:**

2 times of F.S

**Response Time:**

< 2 ms

**Shock Resistance:**

40g

**Vibration Resistance:**

20g

**Free-fall Resistance:**

h=1 m to concrete surface

**ROHS Compliance:**

Yes

**Ingress Protection Rate:**

IP65

**Reverse Polarity Protection:**

Built-in

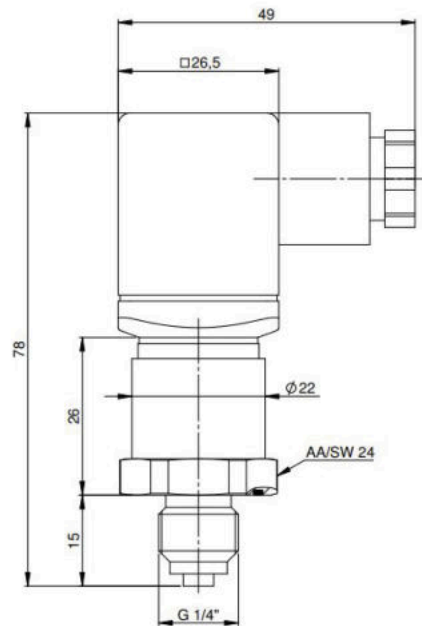
### Accuracy and Temperature Drift:

| Pressure (bar)           | 6   | 10 | 16  | 25 | 40 | 60 | 100 | 160 | 250 | 400 | 600 |
|--------------------------|-----|----|-----|----|----|----|-----|-----|-----|-----|-----|
| Non-linearity (at 25 °C) | 0.6 |    | 0.5 |    |    |    |     |     |     |     |     |
| Accuracy (at 25 °C)      | 1.2 |    |     |    |    |    |     |     |     |     |     |

Temperature Error at 0...80°C: ≤1.5 % of F.S

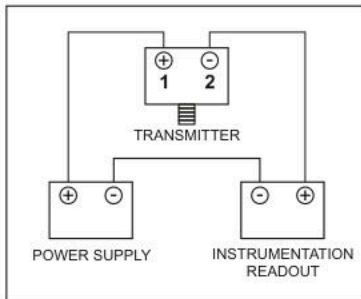
Accuracy includes non-linearity, hysteresis, and non-repeatability at reference conditions. (IEC 61298-1)

## Dimensions in mm:



Standard sealings are made up of NBR. The minimum permissible medium and ambient temperature for those is -30 °C.

## Electrical Connection Scheme:



CONNECTION-PIN



**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:

<25 mA

### Electrical Connector Material:

PBT GF 30

## Approvals:

 Turkish Standards Institution

 ISO 9001 Quality Management System

 TURKAK 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

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