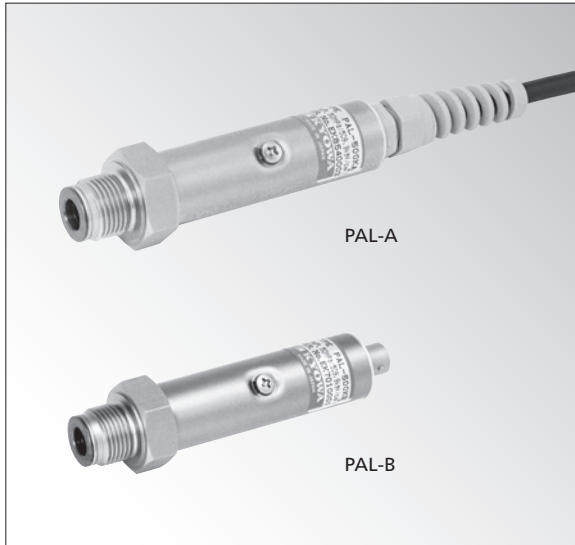


Current-output Pressure Transducer



Excellent noise resistance type with a built-in amplifier

- Current output in a range from 4 to 20 mA
- High frequency response
- Compact & lightweight
- Applicable to highly viscous pressure medium
- Various capacity range

PAL series pressure transducers amplify detected slight signals by a built-in amplifier and then transmit amplified signals in current. The pressure sensor part is simply integrated structure and has high reliability. Also, the amplifier is fully tuned. Therefore, PAL series not only provide high vibration resistant, environmental resistance and stability but also measure data without adjustment.

To Ensure Safe Usage

When using the UCAM-60C M14 in voltage mode, use a 250 Ω resistor to convert data to voltage.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.3\%$ RO (5 to 20K: Within $\pm 0.5\%$ RO)
Hysteresis	Within $\pm 0.3\%$ RO (5 to 20K: Within $\pm 0.5\%$ RO)
Current Output	4 to 20 mA

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.03\%$ RO/°C (5 to 20K: Within $\pm 0.05\%$ RO/°C)
Temperature Effect on Output	Within $\pm 0.03\%$ /°C (5 to 20K: Within $\pm 0.05\%$ /°C)

Electrical Characteristics

SN Ratio	50 dB or more
Load Resistance	0 to 500 Ω
Frequency Response (Built-in Amplifier)	DC to 1 kHz (Sensitivity deviation: $\pm 10\%$)
Power Supply	24 VDC (21 to 30 V), 30 mA or less
Cable	PAL-A: 4-conductor (0.14 mm ²) chloroprene shielded cable, 6 mm diameter by 30 cm long, bared at the tip (use 3 conductors only) PAL-B: 4-conductor (0.18 mm ²) vinyl shielded cable, 4.6 mm diameter by 3 m long Sensor side: Terminated with a connector plug R06-P5F Measuring instrument side: Bared at the tip (use 3 conductors only) (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	150%
Material	Case: SUS (Metallic finish) Liquid-contacting part: SUS 630
Weight	Approx. 85 g (Excluding cable)
Degree of Protection	IP52 (IEC 60529)
Mounting Screw	G3/8, male

Standard Accessories

Gasket (Mild copper)
For every rated capacity, mechanical natural frequency is the same as PGM-H (page 2-88).

Models		Rated Capacity
Cable Integrated Type	Connector Type	
PAL-5KA	PAL-5KB	500 kPa
PAL-10KA	PAL-10KB	1 MPa
PAL-20KA	PAL-20KB	2 MPa
PAL-50KA	PAL-50KB	5 MPa
PAL-100KA	PAL-100KB	10 MPa
PAL-200KA	PAL-200KB	20 MPa
PAL-300KA	PAL-300KB	30 MPa
PAL-500KA	PAL-500KB	50 MPa

Dimensions

