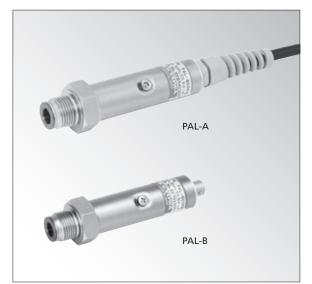
PAL

Output 4 to 20 mA 0500 kPa to 50 MPa

-106

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
- Small-sized and 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 resistance, environmental resistance and stability but also measure without adjustment.

To Ensure Safe Usage

When measuring using voltage mode such as UCAM-60B, use a 250 Ω resistor to convert to voltage.

Dimensions

Rated Capacity	See table belo	See table below.			
Nonlinearity	Within ±0.5%RO for 0.5 to 2 MPa				
	Within ±0.3%RO for 5 to 50 MPa				
Hysteresis	Within ±0.5%RO for 0.5 to 2 MPa				
	Within ±0.3%RO for 5 to 50 MPa				
Rated Output	4 to 20 mA				
Environmenta	al Characteris	tics			
Safe Temperatu		-20 to 70°0	-		
Compensated Temperature		-10 to 60°C			
Temperature Effect on Zero		Within ±0.05%RO/°C for 0.5 to 2 MPa			
•		Within ±0.	03%RO/°C for 5 to 50 MPa		
Temperature Effect on Output		Within ±0.05%/°C for 0.5 to 2 MPa			
Temperature Eff	fect on Output	Within ±0.			
Temperature Eff	fect on Output				
Temperature Eff	· ·		05%/°C for 0.5 to 2 MPa		
•	· ·		05%/°C for 0.5 to 2 MPa		
Electrical Chai SN Ratio	racteristics		05%/°C for 0.5 to 2 MPa 03%/°C for 5 to 50 MPa		
Electrical Chai SN Ratio Load Resistance	racteristics	Within ±0.	05%/°C for 0.5 to 2 MPa 03%/°C for 5 to 50 MPa 50 dB or more		
Electrical Cha	racteristics	Within ±0.	05%/°C for 0.5 to 2 MPa 03%/°C for 5 to 50 MPa 50 dB or more 0 to 500 Ω		
Electrical Chai SN Ratio Load Resistance	racteristics e ponse (Built-in A	Within ±0.	$5\%/^{\circ}$ C for 0.5 to 2 MPa $3\%/^{\circ}$ C for 5 to 50 MPa 50 dB or more 0 to 500 Ω DC to 1 kHz, sensitivity Deviation ±10%		
Electrical Chai SN Ratio Load Resistance Frequency Resp Power Supply Cable PAL-A: 4	racteristics ponse (Built-in A 24 VDC (21 to 31 -conductor (0.1	Within ±0. Amplifier) D V), 30 mA 4 mm ²) chlc	05%/°C for 0.5 to 2 MPa 03%/°C for 5 to 50 MPa 50 dB or more 0 to 500 Ω DC to 1 kHz, sensitivity Deviation ±10% or less proprene shielded cable,		
Electrical Char SN Ratio Load Resistance Frequency Resp Power Supply Cable PAL-A: 4 6 mm di	racteristics nonse (Built-in A 24 VDC (21 to 31 -conductor (0.1 ameter by 30 cr	Within ±0. Amplifier) DV), 30 mA 4 mm ²) chlc n long, bare	05%/°C for 0.5 to 2 MPa 03%/°C for 5 to 50 MPa 50 dB or more 0 to 500 Ω DC to 1 kHz, sensitivity Deviation ±10% or less proprene shielded cable, d at the tip		
Electrical Char SN Ratio Load Resistance Frequency Resp Power Supply Cable PAL-A: 4 6 mm di PAL-B: 4	racteristics nonse (Built-in A 24 VDC (21 to 30 -conductor (0.1 ameter by 30 cr -conductor (0.1	Within ±0. Amplifier) 0 V), 30 mA 4 mm ²) chlc n long, bare 8 mm ²) viny	$05\%/^{\circ}$ C for 0.5 to 2 MPa $03\%/^{\circ}$ C for 5 to 50 MPa 0 to 500 Ω DC to 1 kHz, sensitivity Deviation ±10% or less proprene shielded cable, d at the tip I shielded cable,		
Electrical Char SN Ratio Load Resistance Frequency Resp Power Supply Cable PAL-A: 4 6 mm di PAL-B: 4 4.6 mm	racteristics nonse (Built-in A 24 VDC (21 to 31 -conductor (0.1 ameter by 30 cr	Within ±0.1 Amplifier) 0 V), 30 mA 4 mm ²) chlc n long, bare 8 mm ²) viny n long, bare	05%/°C for 0.5 to 2 MPa 03%/°C for 5 to 50 MPa 0 to 500 Ω DC to 1 kHz, sensitivity Deviation ±10% or less oroprene shielded cable, d at the tip I shielded cable, d at the tip		

Safe Overloads 150%

Specifications

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 (2-88).

Mo	Detect Composite	
Cable-integrated	Connector-equipped	Rated Capacity
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

