Strain Gage
Load Cell
Pressure Sensor
Acceleration Sensor
Torque Sensor
Displacement Sensor
Component Force Sensor
Automotive Sensor
Civil Engineering Sensor

PAV

Voltage-output Pressure Transducer



Ideal for industrial equipment pressure measurement and remote pressure measurement with cable extension

- **Rated capacity: 1 to 50 MPa**
- **Voltage output (0 to 5 V)**
- **High safe overloads (200%)**

Pressure transducers with 0 to 5 V output with the amplifier built into the strain gage type pressure sensor.
The pressure transducer features a seamless design in its pressure-sensing section, eliminating welded joints. Additionally, the amplifier uses a proprietary hybrid IC to reduce the number of components, ensuring high reliability.

Specifications

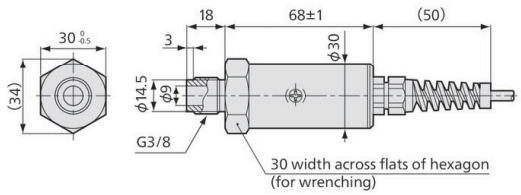
Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±0.2% RO
Hysteresis	Within ±0.2% RO
Voltage Output	0 to 5 V
Environmental Characteristics	
Safe Temperature	−20 to 80℃
Compensated Temperature	−20 to 70℃
Temperature Effect on Zero	Within ±0.03% RO/℃
Temperature Effect on Output	Within ±0.02%/℃
Electrical Characteristics	
SN Ratio	50 dB or more
Load Resistance	1 kΩ or more
Cutoff Frequencies of AMP	1 kHz (Amplitude ratio at cutoff point -3 ±1 dB)
Power Supply	12 VDC (10.5 to 15 V), 30 mA or less
Cable	PAV-R
	4-conductor (0.18 mm²) vinyl shielded cable,
	4.6 mm diameter by 3 m long, bared at the tip.
	(Shield wire is not connected to the case.)
	PAV-U
	4-conductor (0.3 mm²) chloroprene shielded
	cable, 7.6 mm diameter by 3 m long,
	Sensor side: Terminated with a waterproof
	connector plug (1108-12A10-7F)
	Measuring instrument side: Bared at the tip.
	(Shield wire is not connected to the case.)
Mechanical Properties	
Safe Overloads	200%
Material	Case: Stainless steel (Metallic finish)
	Liquid-contacting part: SUS630
Weight	Approx. 200g (Excluding cable)
Degree of Protection	IP52 (JIS C 0920/IEC 60529)
Mounting Screw	G3/8 male

■Standard Accessories Gasket (Mild copper)

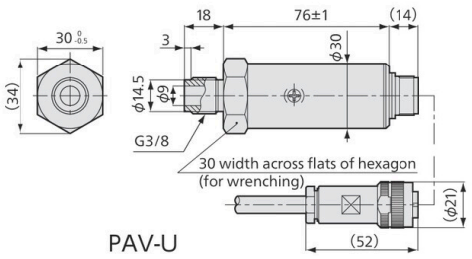
■Models

Model		Rated Capacity
Cable Integrated Type	Connector Type	
PAV-10KR	PAV-10KU	1 MPa
PAV-50KR	PAV-50KU	5 MPa
PAV-100KR	PAV-100KU	10 MPa
PAV-200KR	PAV-200KU	20 MPa
PAV-300KR	PAV-300KU	30 MPa
PAV-500KR	PAV-500KU	50 MPa

■Dimensions



PAV-R



PAV-U

