

PAV-R/U

● Highly resistant against noise during transmission
● 1 to 50 MPa

Voltage-output Pressure Transducer

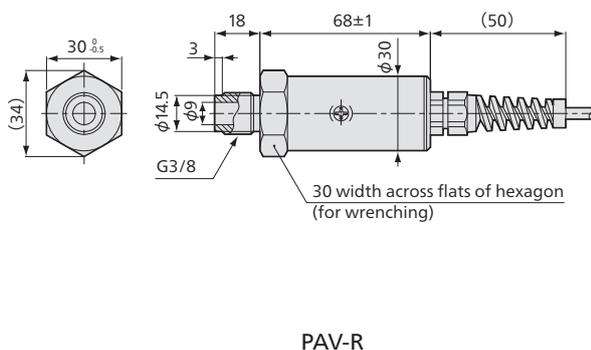


Suitable for pressure measurements of industrial equipments and distant pressure measurement by cable extension

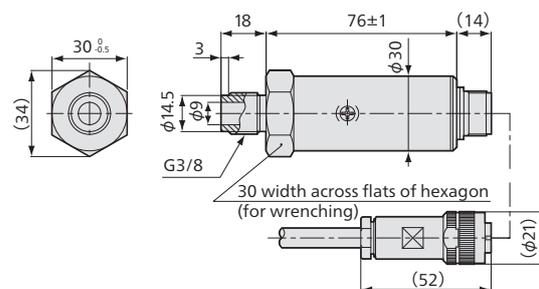
- Voltage output in a range of 0 to 5 V
- Noise resistant
- High safe overloads (200%)
- Suitable for industrial equipment/pressure control system
- Wide range of rated capacities

PAV-R/U pressure transducers have dedicated built-in amplifier and output voltage signals from 0 to 5 V. There is no connection by welding in pressure sensor section. The built-in amplifier adopts unique hybrid IC to reduce numbers of components resulting in increasing reliability. Because built-in amplifier amplifies detected slight voltage in transmission, amplified voltage signals have high resistance against noises, such as inductive interference, and ensure high accuracy.

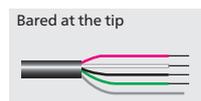
■ Dimensions



PAV-R



PAV-U



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°C
Compensated Temperature	-20 to 70°C
Temperature Effect on Zero	Within ±0.03% RO/°C
Temperature Effect on Output	Within ±0.02%/°C

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 mm ²) vinyl shielded cable, 4.6 mm diameter by 3 m long, bared at the tip PAV-U: 4-conductor (0.3 mm ²) 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: SUS 630
Weight	Approx. 200 g (Excluding cable)
Degree of Protection	IP52 (IEC 60529)
Mounting Screw	G3/8, male

Standard Accessories: Gasket (Mild copper)

Cable Integrated Type	Connector Type	Rated Capacity
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



Pressure Transducers

Outline

General

High temp.
Low temp.

Absolute pressure
High pressure

Pressure transmitter

Differential pressure

Distributed pressure