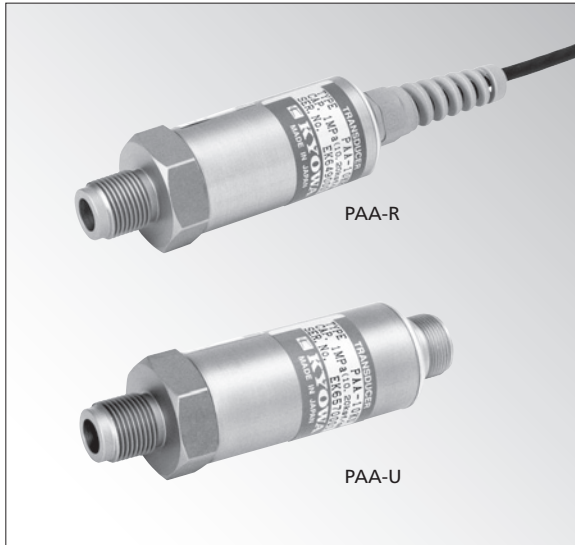


# PAA-R/U

- Highly resistant against noise during transmission
- 500 kPa to 50 MPa

## Current-output Pressure Transducer

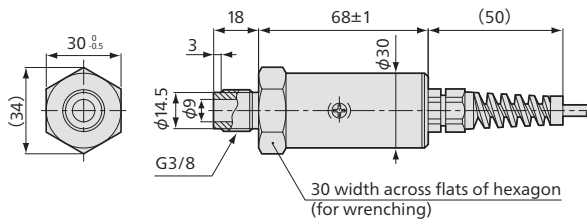


### Suitable for pressure measurements of industrial equipments and distant pressure measurement by cable extension

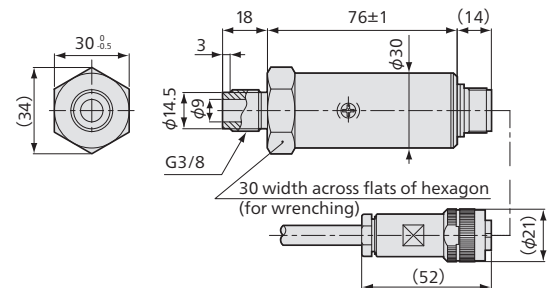
- Current output in a range of 4 to 20 mA
- Noise resistant
- High safe overloads (200%)
- Suitable for industrial equipment/pressure control system
- Wide range of rated capacities

PAA-R/U pressure transducers have dedicated built-in amplifier and output current signals from 4 to 20 mA. 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 signals have high resistance against noises, such as inductive interference, and ensure high accuracy.

### Dimensions

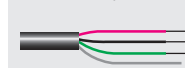


PAA-R



PAA-U

Bared at the tip



### Specifications

#### Performance

|                |                       |
|----------------|-----------------------|
| Rated Capacity | See table below.      |
| Nonlinearity   | Within $\pm 0.2\%$ RO |
| Hysteresis     | Within $\pm 0.2\%$ RO |
| Current Output | 4 to 20 mA            |

#### Environmental Characteristics

|                              |                           |
|------------------------------|---------------------------|
| Safe Temperature             | -20 to 80°C               |
| Compensated Temperature      | -20 to 70°C               |
| Temperature Effect on Zero   | Within $\pm 0.03\%$ RO/°C |
| Temperature Effect on Output | Within $\pm 0.02\%$ /°C   |

#### Electrical Characteristics

|                           |   |
|---------------------------|---|
| SN Ratio                  | 50 dB or more   |
| Load Resistance           | 0 to 500 $\Omega$   |
| Cutoff Frequencies of AMP | 1 kHz (Amplitude ratio at cutoff point -3 $\pm$ 1 dB)   |
| Power Supply              | 24 VDC (21 to 30 V), 30 mA or less  |
| Cable                     | PAA-R: 4-conductor (0.18 mm <sup>2</sup> ) vinyl shielded cable,<br>4.6 mm diameter by 3 m long, bared at the tip (use 3 conductors only) |
|                           | PAA-U: 4-conductor (0.3 mm <sup>2</sup> ) chloroprene shielded cable,<br>7.6 mm diameter by 3 m long                                      |
|                           | Sensor side: Terminated with a waterproof connector plug<br>1108-12A10-7F   |
|                           | Measuring instrument side: Bared at the tip (use 3 conductors only)<br>(Shield wire is not connected to the case.)                        |

#### Mechanical Properties

|                      |  |
|----------------------|--|
| Safe Overloads       | 200%   |
| Material             | Case: SUS (Metallic finish)<br>Liquid-contacting part: SUS 630 |
| Weight               | Approx. 200 g (Excluding cable)                                |
| Degree of Protection | IP64 (IEC 60529)   |
| Mounting Screw       | G3/8, male   |

Standard Accessories Gasket (Mild copper)

| Cable Integrated Type | Connector Type | Rated Capacity |
|-----------------------|----------------|----------------|
| PAA-5KR               | PAA-5KU        | 500 kPa        |
| PAA-10KR              | PAA-10KU       | 1 MPa          |
| PAA-20KR              | PAA-20KU       | 2 MPa          |
| PAA-50KR              | PAA-50KU       | 5 MPa          |
| PAA-100KR             | PAA-100KU      | 10 MPa         |
| PAA-200KR             | PAA-200KU      | 20 MPa         |
| PAA-300KR             | PAA-300KU      | 30 MPa         |
| PAA-500KR             | PAA-500KU      | 50 MPa         |

### To Ensure Safe Usage

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