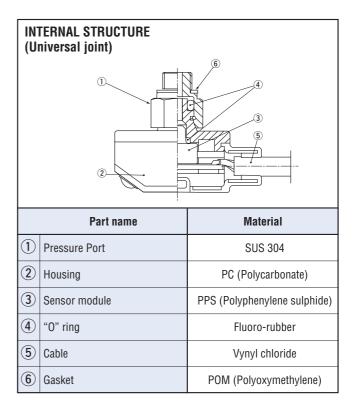
## PRESSURE TRANSDUCERS WITH AMP.

# **PA-20**



### **■ FEATURES**

- Ultra-small size pressure transducer with Amp.
- 2 types of pressure ports are available
- Meet EMC standards



#### **■ MODEL NUMBER DESIGNATION**

PA-20-102V-U-3M

Series name

Cable length
Blank: 1.5 m
3M: 3 m

Rated pressure range
102V: 0 ~ -100 kPa (Gauge - Vacuum)
302R: -100 ~ 300 kPa (Gauge - Compound)

U: Universal joint (M5 male screw)
M: 2-M5 female screw

#### **■ LIST OF MODEL NUMBERS**

Pressure port	Cable length	Rated pressure range [kPa]	
	Gable leligtii	0 ~ - 100	<b>– 100 ~ 300</b>
Habitan I babat	1.5 m	PA-20-102V-U	PA-20-302R-U
Universal joint	3 m	PA-20-102V-U-3M	PA-20-302R-U-3M
0.885 (	1.5 m	PA-20-102V-M	PA-20-302R-M
2-M5 female screw	3 m	PA-20-102V-M-3M	PA-20-302R-M-3M

<sup>\*</sup> Verify the above model numbers when placing orders.

### **■ STANDARD SPECIFICATIONS**

• Unless otherwise specified, the specs are defined at an ambient temperature of 25±5 °C and excitation voltage of 24 V DC.

ltem Model number		lodal number	PA-20		
		woder number	102V	302R	
Pressure reference			Gauge		
	Rated pressure range	kPa	0 ~ -100	−100 ~ 300	
	Maximum pressure	kPa	200	600	
Suc	Operating temp. range	°C	- 10 ~ 60		
Operating temp. range °C		50			
		35 ~ 85 (No c	35 ~ 85 (No condensation)		
eral 8	Storage temp.	°C	− 20 ~ 70		
Ger	Pressure medium		Non-corrosive gases		
	Insulation resistance	$M\Omega$ minimum	100		
	Dielectric strength		500 V A	.C, 60 s	
	Net weight (Without cable) g		Approx. 5 (PA-20-****-U) Approx. 8 (PA-20-***-M)		
ver	Supply voltage V DC 10.8 ~ 30 (Including ripple percentage)  Consumption current mA maximum 20		g ripple percentage)		
Pov			0		
Analog output	Output voltage V		1 ~ 5		
	Output current maximum maximum		1 (Load resistance : 5 kΩ minimum)		
	Linearity/Hysteresis	%F.S.	± (	0.5	
	Thermal error (Reference temp.: 25 °C)	ZERO %F.S.	± 2		
		SPAN %F.S.	±2		

### **■ ENVIRONMENTAL CHARACTERISTICS**

Test item	Test conditions	permissible change	
Vibration	10 ~ 55 Hz, 1.5 mm, 3 directions for 2 hours each	Analog output : $\pm$ 2 %F.S. maximum after test	
Shock	1000 m/s², 3 directions for 3 times each		
Pressure cycling	0 ~ Rated pressure, 10° cycles		
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 h.		
EMC	EMI : EN55011 Group 1, class B (1998) EMS : EN61326-1 (1997), -A1 (1998)	± 5 %F.S. maximum during test	

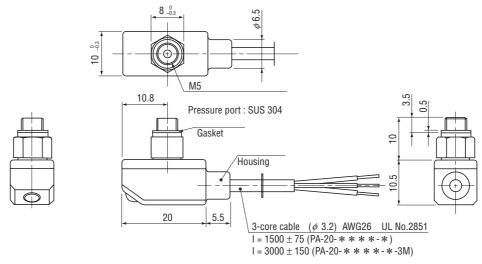
# **PA-20**

## PRESSURE TRANSDUCERS WITH AMP.

### **OUTLINE DIMENSIONS**

Unless otherwise specified, tolerance :  $\pm$  0.5 (Unit: mm)

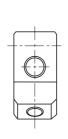
#### Universal joint type

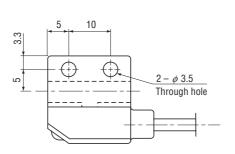


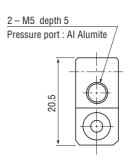
### M5 female screw type



Wire color	Connection	
Brown	Power +	
Blue	Common	
Black	Output	







### **■ INTERNAL ELECTRICAL SCHEMATICS**

