

PRESSURE TRANSDUCERS WITH AMP.

# PA-930-A



## FEATURES

- Absolute type model for PA-930 series
- Suitable for high temperature media (150 °C)
- Compact and light weight due to original heat insulation technology
- High corrosion resistant SUS 316L port and nickel alloy sensor module

**INTERNAL STRUCTURE**

Part name	Material
① Sensor module	Nickel alloy
② Pressure port	SUS316L
③ Pipe	SUS304
④ Joint	PBT (Polybutyleneterephthalate)
⑤ Cover	Aluminum

## MODEL NUMBER DESIGNATION

PA-930-202A-VC

Series name

Rated pressure range

102 : 0 ~ 100 kPa abs  
202 : 0 ~ 200 kPa abs

Pressure port

VC : 9/16-18UNF

Pressure reference

A : Absolute

## LIST OF MODEL NUMBERS

Rated pressure range (kPa)	Pressure reference	Absolute
	Pressure port	9/16-18UNF
0 ~ 100 (abs)		PA-930-102A-VC
0 ~ 200 (abs)		PA-930-202A-VC

※Verify the above model numbers when placing orders.

# PA-930-A

## PRESSURE TRANSDUCERS WITH AMP.

### ■ 標準仕様 STANDARD SPECIFICATIONS

● Unless otherwise specified, the specs are defined at a pressure port temperature of  $125 \pm 5$  °C and at an ambient temperature of  $25 \pm 5$  °C and excitation voltage of 24 V DC.

Item		Model number	PA-930-A		
			102A	202A	
General specifications	Pressure reference		Absolute		
	Rated pressure range	kPa	100 (ads)	200 (abs)	
	Maximum pressure	kPa	300 (abs)		
	Break-down pressure	kPa	300 (abs)		
	Pressure medium		Corrosive gases/liquids compatible with SUS 316L and nickel alloy		
	Operating / Compensated	°C	0 ~ 50 (Circuit Board) 0 ~ 150 (Pressure port) / 100 ~ 150 (Pressure port)		
	Operating humidity	%RH	35 ~ 85 (No condensation)		
	Storage temp.	°C	- 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)		
	Insulation resistance	MΩ minimum	50 (125 V DC)		
	Dielectric strength		125 V DC, 60 s (Leakage current 1 mA maximum)		
	Pressure port		9/16-18UNF		
	Net weight	g	Approx. 140		
Power	Supply voltage	V DC	12 ~ 24 $\pm$ 10 %		
	Ripple content	maximum	10 % (P-P)		
	Consumption current	maximum	20 mA		
Analog output	Output voltage	V DC	1 ~ 5		
	Zero voltage	V ※1	1 $\pm$ 0.04		
	Span voltage	V ※1	4 $\pm$ 0.04		
	Output current		1 mA max. (Load resistance 5 kΩ min.)		
	Linearity/Hysteresis	%F.S.	$\pm$ 0.5		
	Thermal error	ZERO	$\pm$ 0.3 %F.S./°C (100 to 150 °C, Reference temp. at 125 °C)	$\pm$ 0.2 %F.S./°C (100 to 150 °C, Reference temp. at 125 °C)	
		SPAN	$\pm$ 0.2 %F.S./°C (100 to 150 °C, Reference temp. at 125 °C)		
Response		Approx. 2 ms.			

※1 : Pressure port temperature : 125 °C  
Ambient temperature : 25 °C

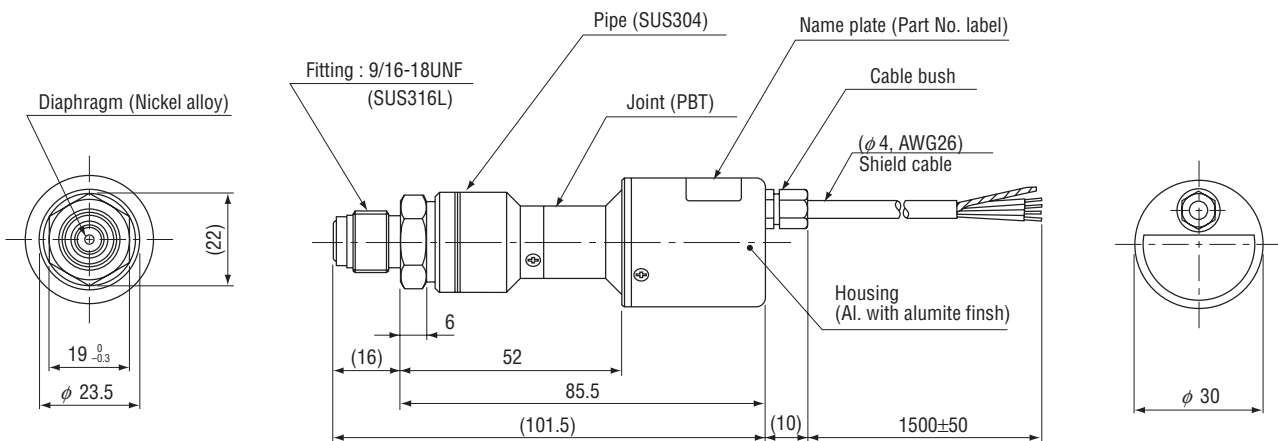
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## ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions (At 25 ± 5 °C)	Permissible change
Vibration	10 ~ 500 Hz, 1.5 mm maximum/98.1 m/s <sup>2</sup> , 3 directions for 2 hours each	Zero voltage, Span voltage: ± 1 %F.S. maximum each
Shock	490 m/s <sup>2</sup> , 3 directions for 3 times each	
Pressure cycling	0 ~ Rated pressure, 10 <sup>6</sup> cycles	
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.	

## OUTLINE DIMENSIONS

Unless otherwise specified, tolerance : ± 0.5 (Unit: mm)



Wire color	Connection
Red	Power ⊕
White	Output
Black	Common
Green	N.C.
Shield	Fitting

## INTERNAL ELECTRICAL SCHEMATICS

