

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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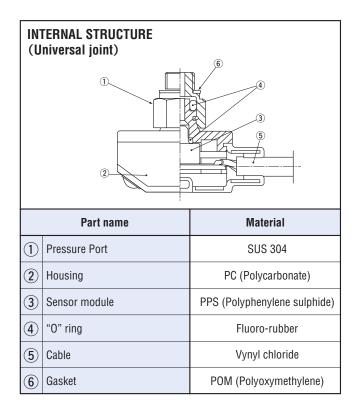






FEATURES

- 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

Pressure port

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

Dressure next	Coble longth	Rated pressure range [kPa]		
Pressure port	Cable length	0 ~ - 100	– 100 ~ 300	
Universal joint	1.5 m	PA-20-102V-U	PA-20-302R-U	
	3 m	PA-20-102V-U-3M	PA-20-302R-U-3M	
2-M5 female screw	1.5 m	PA-20-102V-M	PA-20-302R-M	
	3 m	PA-20-102V-M-3M	PA-20-302R-M-3M	

^{*}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.

Madal		adal numbar	PA-20	
	Item Model 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	
ficatio	Compensated temp. range °C Compensated temp. range °C Operating humidity %RH Storage temp. °C Pressure medium		0 ~ 50	
speci			35 ~ 85 (No condensation)	
General	Storage temp.	°C	-20 ~ 70	
	Pressure medium		Non-corrosive gases	
	Insulation resistance	MΩ minimum	100	
	Dielectric strength		500 V AC, 60 s	
	Net weight (Without cable	e) g	Approx. 5 (PA-20- * * * * -U) Approx. 8 (PA-20- * * * * -M)	
ver	Supply voltage V DC Consumption current maximum		10.8 ~ 30 (Including	g ripple percentage)
Pov			20	
	Output voltage V		1 ~ 5	
=	Output current	mA maximum	1 (Load resistance : 5 kΩ minimum)	
Analog output	Linearity/Hysteresis	%F.S.	± (0.5
	Thermal error (Reference temp.: 25 °C)	ZERO %F.S.	± 2	
		SPAN %F.S.	± 2	
	Response	ms	Appr	rox.1

■ ENVIRONMENTAL CHARACTERISTICS

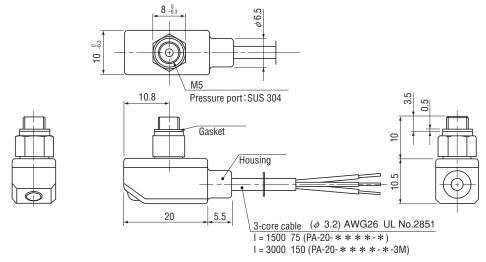
Test item	Test conditions	permissible change	
Vibration	10 ~ 55 Hz, 1.5 mm, 3 directions for 2 hours each	Analog output O. V. F. C. monimum offer toot	
Shock	1000 m/s², 3 directions for 3 times each		
Pressure cycling	0 ~ Rated pressure, 10° cycles	Analog output : ± 2 %F.S. maximum after test	
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 h.		
EMC	EMI : EN55011: 2007, A2 : 2007 Group 1, class B EMS : EN61326-1 : 2006/EN61326-2-3 : 2006 Table 2	Analog output ± 5 %F.S. maximum during test	

PRESSURE TRANSDUCERS WITH AMP.

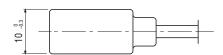
OUTLINE DIMENSIONS

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

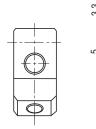
Universal joint type

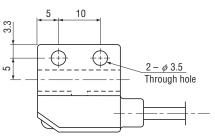


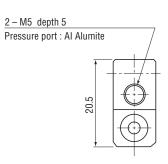
M5 female screw type



Wire color	Connection
Brown	Power +
Blue	Common
Black	Output







■ INTERNAL ELECTRICAL SCHEMATICS

