

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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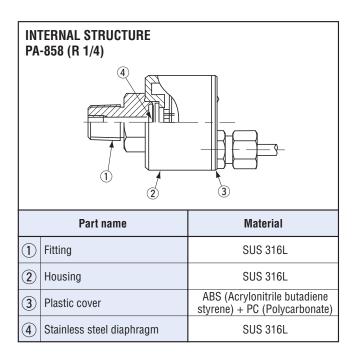
PA-858



FEATURES

- High corrosion resistance and drip-proof construction Pressure port attachment made of SUS 316L
 Proven IP65 grade gauge body (IP65 in accordance with IEC)
- Absolute pressure type and compound pressure type which can control negative to positive pressure with only a single pressure gauge are all in line
- Three standard types of joint are provided

R2: R 1/4 (M 5 female screw) GF: G 3/8 with flash diaphragm G2: G 1/4 (M 5 female screw)



■ MODEL NUMBER DESIGNATION

<u>PA-858 - 102 R - R2</u> Series name Fitting R2: R 1/4 with M 5 female screw Pressure reference GF: G 3/8 with flash diaphragm Rated pressure range G2: G 1/4 with M 5 female screw G: Gauge 102:0~100 kPa 352:0~350 kPa 103:0~1000 kPa V: Gauge (Vacuum) 102:0~-100 kPa R: Compound 302: - 100 ~ 300 kPa 102:0~100 kPa abs A: Absolute

PRESSURE TRANSDUCERS WITH AMP.

■ LIST OF MODEL NUMBERS

Pressure reference		Gauge					Absolute
Fitting	kPa Rated pressure range	0 ~ 100	0 ~ 350	0 ~ 1000	0 ~ - 100	– 100 ~ 300	0 ~100
	R2 (R 1/4)	PA-858-102G-R2	PA-858-352G-R2	PA-858-103G-R2	PA-858-102V-R2	PA-858-302R-R2	PA-858-102A-R2
	GF (G 3/8)	PA-858-102G-GF	PA-858-352G-GF	PA-858-103G-GF	PA-858-102V-GF	PA-858-302R-GF	PA-858-102A-GF
	G2 (G 1/4)	PA-858-102G-G2	PA-858-352G-G2	PA-858-103G-G2	PA-858-102V-G2	PA-858-302R-G2	PA-858-102A-G2

^{*} Verify the above model numbers when placing orders.

STANDARD SPECIFICATIONS

• Unless otherwise specified, the specs are defined at an ambient temperature of 25 \pm 5 °C and excitation voltage of 24 V DC, load resistance of 250 Ω .

	Model	PA-858						
	Item number	102G	352G	103G	102V	302R	102A	
	Pressure reference		Gauge					
	Rated pressure range kPa	100	350	1000	- 100	- 100 ~ 300	100 (abs)	
	Maximum pressure kPa	200	700	2000	200	600	200 (abs)	
Sui	Break-down pressure kPa	300	1050	3000	300	900	300 (abs)	
	Operating temp. range °C	- 20 ~ 70						
	Compensated temp. range °C	0 ~ 50						
iicati	Operating humidity %RH	35 ~ 85 (No condensation)						
General specifications	Storage temp. °C	– 20 ~ 80 (Atmospheric pressure, humidity 65 %RH maximum)						
	Pressure medium	Corrosive gases/liquids compatible with SUS 316L						
Ger	Insulation resistance M\(\Omega\) minimum	100 (500 V DC)						
	Dielectric strength	500 V AC, 60 s (Leakage current 1 mA maximum)						
	Sealed liquid	Silicone oil						
	Pressure port	R 1/4、G 3/8(Flash diaphragm)、G 1/4 ※1						
	Net weight g	R2 : Approx. 165, GF : Approx. 180, G2 : Approx. 170						
	Protection grade	IP65						
Power	Supply voltage V DC	$24 \pm 10 \%$ (Including ripple percentage)						

※1: An "0" ring provided. (G 3/8: P18, G 1/4: P15)

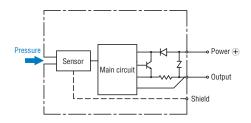
	Itom	Model number	PA-858						
	Item		102G	352G	103G	102V	302R	102A	
	Output current	mA	4 ~ 20 mA						
	Zero current	mA (at 25 °C)	4 ± 0.2				8 ± 0.2	4 ± 0.2	
	Span current	mA (at 25 °C)	16 ± 0.2						
Ħ	Load resistance		0 ~ 500 Ω						
output	Linearity/Hyster	esis %F.S.	± 0.5						
Analog	Thermal error	ZERO %F.S./°C	± 0.06						
A	Thermal error	SPAN %F.S./°C			± 0	.06			
	Response	ms	Approx. 2						
	Gravitational effect %F.S. (From horizontal position to vertical position)		± 0.3	± 0.1	± 0.05	± 0.3	± 0.1	± 0.3	

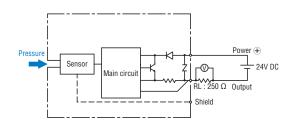
■ ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions (At 25 \pm 5 °C)	Permissible change	
Vibration	10 ~ 500 Hz, 1.5 mm maximum/98.1 m/s², 3 directions for 2 hours each	Zero current, Span current: ± 1 %F.S. maximum each	
Shock	490 m/s ² 3 directions for 3 times each		
Pressure cycling	10 ⁶ cycles 0 ∼ Rated pressure/Rated pressure range		
Moisture resistance 40 °C, 90 ~ 95 %RH, 240 hrs.			

INTERNAL ELECTRICAL SCHEMATICS

■ RECOMMENDED EXTERNAL SCHEMATICS



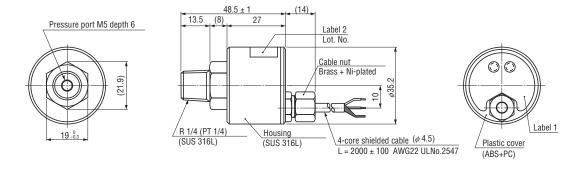


PRESSURE TRANSDUCERS WITH AMP.

OUTLINE DIMENSIONS

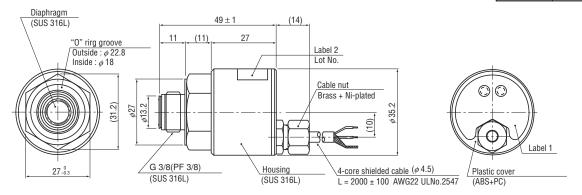
Unless otherwise specified, tolerance : ± 0.5 (Unit: mm)

Configurations of joint R2 (R1/4) type



Configurations of joint GF (G 3/8) type

Wire color	Connection
Brown	Power +
White	Output
Black	N.C.
Blue	N.C.
Shield	Fittina



Extra care should be taken with the diaphragm part. Do not touch the diaphragm directly to avoid damaging the diaphragm.

Configurations of joint G2 (G 1/4) type

