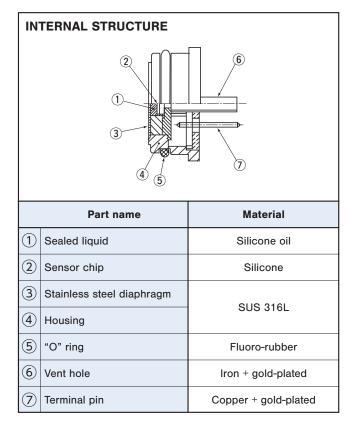
P-8505

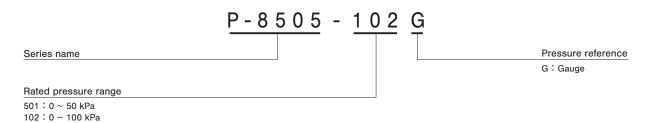


FEATURES

- Double diaphragm structure
- lacktriangle Built-in temperature compensation function (0 \sim 50 $^{\circ}$ C)



MODEL NUMBER DESIGNATION



LIST OF MODEL NUMBERS

352: 0 ~ 350 kPa 103: 0 ~ 1000 kPa

Pressure reference	Gauge					
kPa Rated pressure range	0 ~ 50	0 ~ 100	0 ~ 350	0 ~ 1000		
Model number	P-8505-501G	P-8505-102G	P-8505-352G	P-8505-103G		

Werify 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 current of 1.5 mA DC.

	Item Model number		P-8505				
	item \ N	lodel number	501G	102G	352G	103G	
Pressure reference			Gauge				
General specifications	Rated pressure range	kPa	50	100	350	1000	
	Maximum pressure	kPa	100	200	700	2000	
	Break-down pressure	kPa	150	300	1050	3000	
	Operating temp. range	e °C	-20 ~ 70				
	Compensated temp. r	ange °C	0 ~ 50				
ecific	Operating humidity	%RH	35 ~ 85 (No condensation)				
l sp	Storage temp.	°C	-20 ∼ 70 (Atmospheric pressure, humidity 65 %RH maximum)				
nera	Bridge resistance	Ω	3300 ± 30 %				
g	Pressure medium		Corrosive gases/liquids compatible with SUS316L				
	Insulation resistance	$\begin{array}{c} M\Omega \\ \text{minimum} \end{array}$					
	Dielectric strength		500 V AC, 60 s (Leakage current 1 mA maximum)				
	Sealed liquid		Silicone oil				
	Net weight g		Approx. 10				
Power	Excitation current	mA DC	1.5 (Constant current)				
	Offset voltage	mV	mV ± 3				
	Span voltage	mV	90 ± 30				
put	Linearity/Hysteresis %F.S.		± (0.3		± 0.5	
) out	Thermal error (Reference temp.: 25 °C)	ZERO %F.S./°C	± 0.05				
Analog output		SPAN %F.S./°C	± 0.05				
¥	Response ms		Approx. 2				
	Gravitational effect %F.S. (From vertical position to horizontal position) max.		Appro	ox. 0.5	Approx. 0.1	Approx. 0.05	

■ ENVIRONMENTAL CHARACTERISTICS

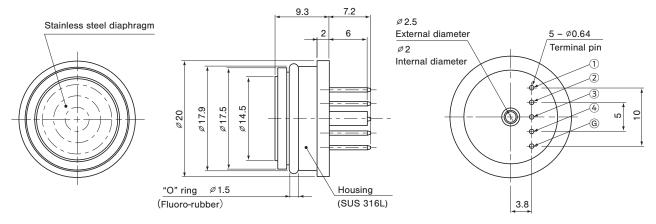
Test item	Test conditions (At 25 \pm 5 °C)	Permissible change	
Vibration	$10 \sim 500$ Hz, 1.5 mm maximum/98.1 m/s², 3 directions for 2 hours each	Offset voltage/Span voltage: ± 1 %F.S. maximum each	
Shock	490 m/s², 3 directions for 3 times each		
Pressure cycling	0 ~ Rated pressure, 10 ⁶ cycles		
Moisture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

^{*}The sensor can measure vacuum pressure, however its accuracy isn't always guaranteed. Please contact your latest sales office if you need guarantee of accuracy.

PRESSURE TRANSDUCERS

OUTLINE DIMENSIONS

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



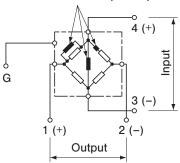
Extra care should be taken with the diaphragm part. Do not touch the diaphragm directly to avoid damaging the diaphragm.

P-8505

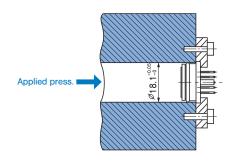
PIN	CONNECTION		
1	Output ⊕		
2	Output ⊖		
3	Input ⊖		
4	Input ⊕		
G	Housing		

INTERNAL ELECTRICAL SCHEMATICS





INSTALLATION EXAMPLES



- An "O" ring S16 is supplied as accessory. Make the mounting bore diameter ϕ 18.1 $^{+0.05}_{-0}$ and the surface-roughness as 6.3 S (\bigtriangledown
- Do not make the connector terminal side be airtight completely, as the vent hole is at this side.