

**Features**

- Accuracy,  $\pm 1.0\%$ FS
- Volt level output
- Piggy-back style, pre-amplified and pre-compensated module
- Pre-calibration of offset voltage and span

**Applications**

- Industrial instrumentation
- Pressure switch, Pneumatic device
- Medical device

**Part number for ordering**

PSM C - 025KP G

Model  
PSM

Rated pressure(Pa)

Available pressure media

No mark : Non-corrosive gas only

C : Non-corrosive gas and liquid  
(Contact us about availability)

Pressure type

G : Gauge(Positive pressure)

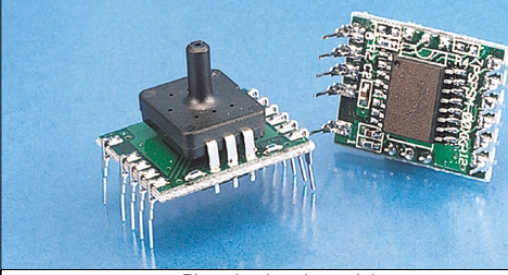
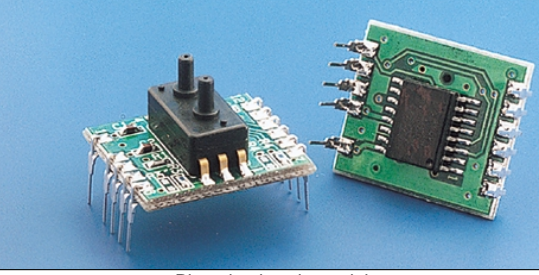
GV : Gauge(Negative pressure)

GW : Gauge(Bipolar pressure)

D : Differential(Positive pressure)

DV : Differential(Negative pressure)

DW : Differential(Bipolar pressure)

Pressure type	Gauge pressure PSM-G	Differential pressure PSM-D
Model		
Package configuration	Piggy-back style module	Piggy-back style module

Measurable pressure range (kPa)	Part number for ordering	
-100~100	PSM-100KPGW	PSM-100KPDW
0~-100	PSM-100KPGV	PSM-100KPDV
0~25	PSM-025KPG	PSM-025KPD
0~50	PSM-050KPG	PSM-050KPD
0~100	PSM-100KPG	PSM-100KPD
0~200	PSM-200KPG	PSM-200KPD

**Specifications**

Model/Rated pressure	100KPGW 100KPDW	100KPGV 100KPDV	025KPG 025KPD	050KPG 050KPD	100KPG 100KPD	200KPG 200KPD	Unit
<b>Recommended operating conditions</b>							
<b>Pressure type</b>	Gauge pressure						—
<b>Rated pressure</b>	$\pm 100$	-100	25	50	100	200	kPa
	$\pm 1.020$	-1.020	0.255	0.510	1.020	2.040	kg/cm <sup>2</sup>
<b>Measurable pressure range</b>	100~100	0~-100	0~25	0~50	0~100	0~200	kPa
<b>Pressure media</b> ※1	PSM : Non-corrosive gas only, PSMC : Non-corrosive gas and liquid						—
<b>Excitation voltage</b>	5 $\pm$ 0.25						VDC
<b>Absolute maximum rating</b>							
<b>Maximum load pressure</b>	Twice of rated pressure						
<b>Maximum excitation voltage</b>	7						VDC
<b>Operating temperature</b>	-20~100						°C
<b>Storage temperature</b>	-40~120						°C
<b>Operating humidity</b>	30~80 (No dew condensation)						%RH
<b>Electric performances/characteristics (Excitation voltage Vcc=5.0V constant, Ambient temperature Ta=25 ) °C</b>							
<b>Current consumption</b>	less than 5						mA
<b>Mechanical response time</b>	2 (For the reference)						msec
<b>Output voltage</b> ※2, ※3	0.5 (-100kPa) ~ 4.5 (100kPa)	0.5 (0kPa) ~ 4.5 (-100kPa)	0.5 (0kPa) ~ 4.5 (25kPa)	0.5 (0kPa) ~ 4.5 (50kPa)	0.5 (0kPa) ~ 4.5 (100kPa)	0.5 (0kPa) ~ 4.5 (200kPa)	V
<b>Full scale span voltage</b> ※3	4.0						V
<b>Offset voltage</b> ※2, ※3	0.5 $\pm$ 0.04						V
<b>Full scale span voltage</b> ※2, ※3	4.5 $\pm$ 0.04						V
<b>Accuracy</b> ※3	$\pm 1.0$						%FS/0~50°C

Note ; ※1) Please consult us available when you choose the C models.  
 ※2) Output refers to pressure at pressure port 2.  
 ※3) Excluding input voltage error.

Outline dimensions

**PSM-G**

unit (mm)

**ELECTRICAL PIN CONNECTIONS**

PIN NO.	SYMBOL
①	Vcc
②	NO PIN
③	Vout
④	NC
⑤	NC
⑥	NC
⑦	NC
⑧	NC
⑨	NC
⑩	NC
⑪	NC
⑫	GND

**Recommended footprint for PCB**

**PSM-D**

unit (mm)

**ELECTRICAL PIN CONNECTIONS**

PIN NO.	SYMBOL
①	Vcc
②	NO PIN
③	Vout
④	NC
⑤	NC
⑥	NC
⑦	NC
⑧	NC
⑨	NC
⑩	NC
⑪	NC
⑫	GND

**Recommended footprint for PCB**

Transfer Function

$$V_{out} = V_s \times (P \times \alpha + \beta) \pm (\text{Pressure Error} \times \text{Temperature Error Multiplier} \times \alpha \times V_s)$$

※Vs=5.0volts

※P=Input Pressure(kPa)

※Temperature Error Multiplier=1

Model	pressure range	$\alpha$	$\beta$	Pressure Error(kPa)
025KPG(D)	0~25kPa	0.032	0.1	0.25
050KPG(D)	0~50kPa	0.016	0.1	0.5
100KPG(D)	0~100kPa	0.008	0.1	1.0
100KPGV(DV)	0~-100kPa	-0.008	0.1	1.0
100KPGW(DW)	-0~+100kPa	0.004	0.5	2.0
200KPG(D)	0~200kPa	0.004	0.1	2.0

Note ; Please read instruction "Notes" before using the sensor.  
Fujikura reserves the right to change specifications without notice.

**Fujikura Ltd.**

If you have any questions regarding technical issues or specifications, please contact us.  
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