

**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

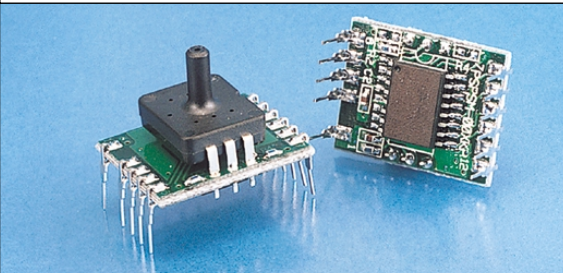
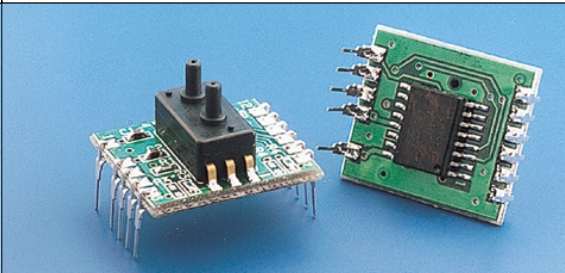
Model  
PSM

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

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

※ $V_s = 5.0$ volts

※ $P = \text{Input Pressure (kPa)}$

※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.  
Sensor Engineering Department 5-1 Kiba 1-chome, Koto-ku, Tokyo 135-8512, Japan  
Phone +81-(0)3-5606-1072 Fax. +81-(0)3-5606-1538  
E-mail : sensor@fujikura.co.jp