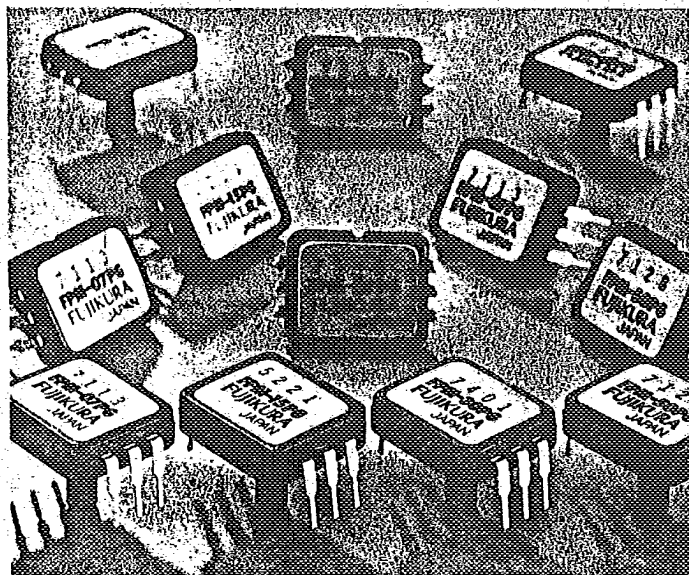


FPM Series*High-accuracy, low-priced plastic mold DIP type*

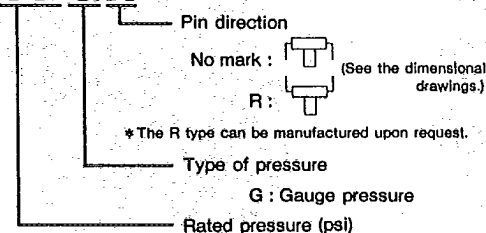
T-65-13

**■ Features**

- High accuracy, low price, high reliability
- DIP type permitting easy mounting on PC board
- Standard gauge pressure types
- Vacuum pressure measurement

■ Applications

- Medical equipment
- Industrial instruments
- Pneumatic devices
- Automobiles

■ Model code**FPM-07PGR****■ Specifications**

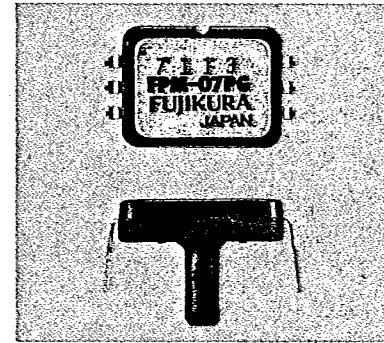
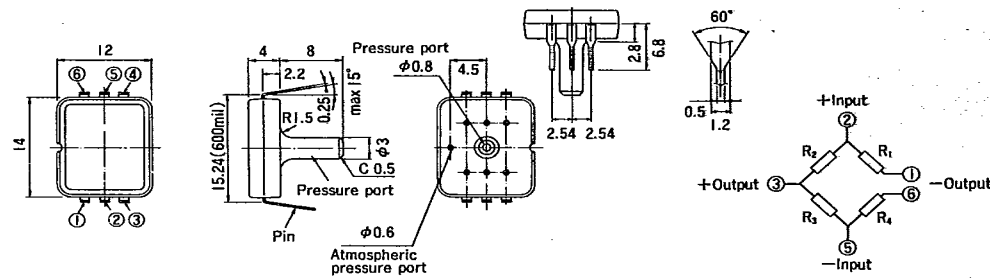
* For definitions on the specification items, refer to pp.15 and 16 of our Technical Information.

Model (FPM-)	02PG(R)	05PG(R)	07PG(R)	15PG(R)	30PG(R)	50PG(R)	70PG(R)	120PG(R)	Units	Notes
Recommended operating conditions										
Rated pressure	0.141	0.352	0.492	1.055	2.109	3.515	4.922	8.437	kg/cm²	
	13.79	34.47	48.26	103.4	206.8	344.7	482.6	827.4	kPa	
Measurable pressure range	-0.141	-0.352	-0.492	-1	-1	-1	-1	-1	kg/cm²	
	+0.141	+0.352	+0.492	+1.055	+2.109	+3.515	+4.922	+8.437		
Type of pressure	Gauge pressure									
Pressure media	Non-corrosive gases									
Drive current (constant)	1.5								mA	
Absolute maximum rating										
Maximum load pressure	Rated pressure × 2							Rated pressure × 1.5		
Maximum drive current	3								mA	
Operating temperature	-20 ~ 100								℃	
Storage temperature	-40 ~ 120								℃	
Electrical characteristics (Drive current I = 1.5mA constant current; ambient temperature Ta = 25℃)										
Output span voltage	60 ~ 140								mV	
Offset voltage	± 20								mV	
Bridge resistance	4000 ~ 6000								Ω	
Accuracy	TSO*3	± 5							%FS/50℃	*2
	TCS*4	2.5							%FS/50℃	*2
	Linearity	± 0.5	± 0.3				± 0.5	± 0.6	%FS	
	Pressure hysteresis	± 0.4	± 0.2				± 0.4		%FS	

NOTES : *1) ☐ PGR manufactured upon request
 *2) For temperature range from 0 to 50°C
 *3) Temperature Sensitivity of Offset
 *4) Temperature Coefficient of Span output

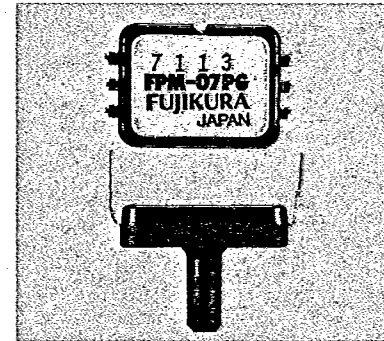
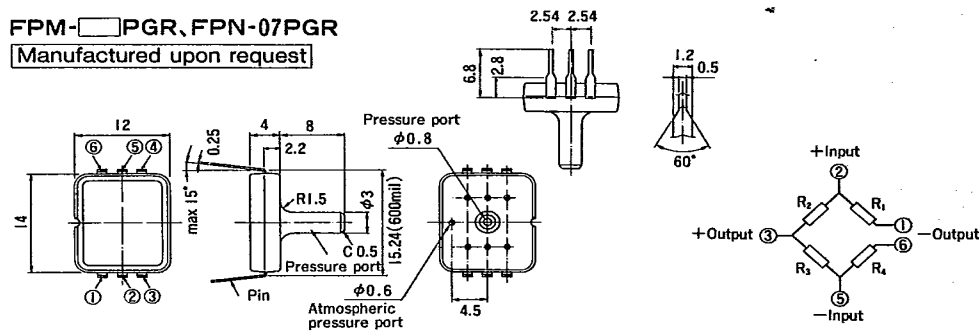
Dimensions and electrical pin connections

FPM-□PG, FPN-07PG

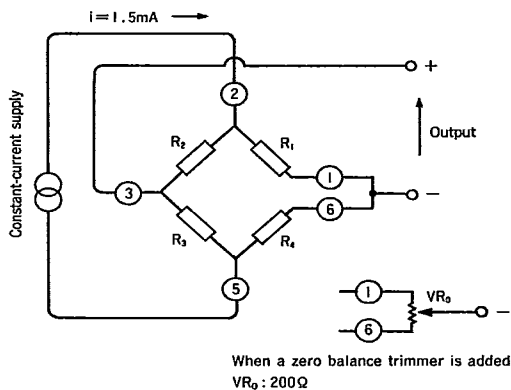


FPM-□PGR, FPN-07PGR

[Manufactured upon request]

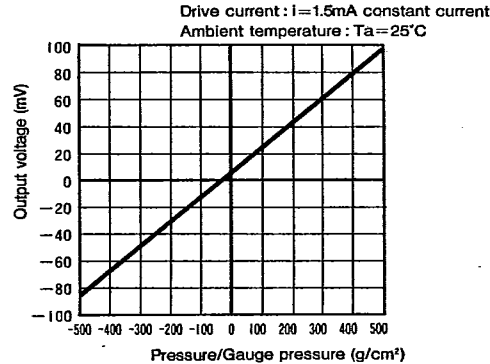


Example of electrical connection

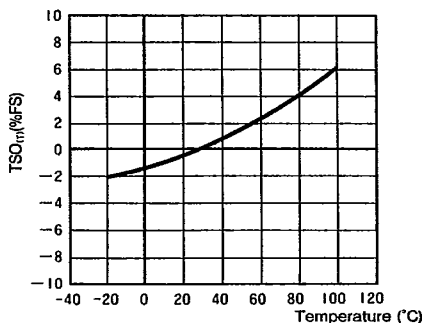


Example of characteristics (with FPM-07PG as representative)

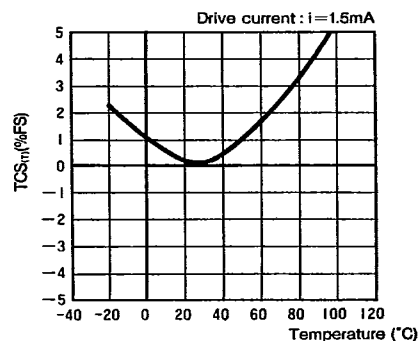
● Example of output characteristics (FPM-07PG)



● Example of $TSO_{(T)}$ characteristics (FPM-07PG)



● Example of $TCS_{(T)}$ characteristics (FPM-07PG)



The characteristics curves shown here are based on the following definitions:

$V_{(P,T)}$: Output voltage at pressure $P\text{g/cm}^2$ and temperature $T^\circ\text{C}$
 $SV_{(T)}$: Output span voltage at temperature $T^\circ\text{C}$

$$= V_{(492.2, T)} - V_{(0, T)}$$

TSO at $T^\circ\text{C}$ is defined as $TSO_{(T)} (\%FS)$

$$= (V_{(0, T)} - V_{(0, 25)}) / SV_{(25)} \times 100$$

TCS at $T^\circ\text{C}$ is defined as $TCS_{(T)} (\%FS)$

$$= (SV_{(T)} - SV_{(25)}) / SV_{(25)} \times 100$$