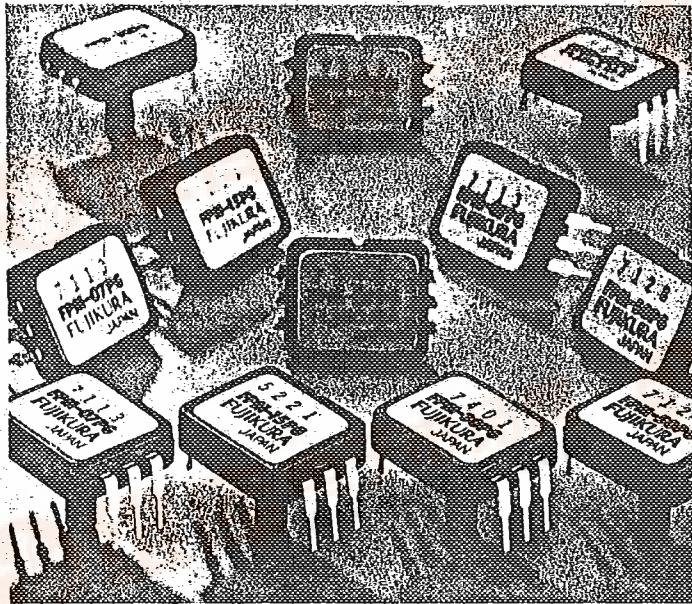


FPM Series*High-accuracy, low-priced plastic mold DIP type*

T-65-13

**Features**

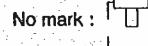
- High accuracy, low price, high reliability
- DIP type permitting easy mounting on PC board
- Standard gauge pressure types
- Vacuum pressure measurement

Applications

- Medical equipment
- Industrial instruments
- Pneumatic devices
- Automobiles

Model code**FPM-07PGR**

Pin direction



(See the dimensional drawings.)

R :

* The R type can be manufactured upon request.

Type of pressure

G : Gauge pressure

Rated pressure (psi)

Specifications

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

Model (FPM)	02PG(R)	05PG(R)	07PGR	15PG(R)	30PG(R)	50PG(R)	70PG(R)	120PG(R)	Units	Notes
Recommended operating conditions										

Rated pressure	0.141 13.79	0.352 34.47	0.492 48.26	1.055 103.4	2.109 206.8	3.515 344.7	4.922 482.6	8.437 827.4	kg/cm ² kPa	
Measurable pressure range	-0.141 +0.141	-0.352 +0.352	-0.492 +0.492	-1 +1.055	-1 +2.109	-1 +3.515	-1 +4.922	-1 +8.437	kg/cm ²	
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						°C	
Storage temperature			-40~120						°C	

Electrical characteristics (Drive current I = 1.5mA constant current; ambient temperature Ta = 25°C)										
Output span voltage			60~140						mV	
Offset voltage			±20						mV	
Bridge resistance			4000~6000						Ω	
TSO ^{*1}			±5						%FS '50°C	*2
TCS ^{*3}			2.5						%FS '50°C	*2
Linearity	±0.5		±0.3		±0.5	±0.6			%FS	
Pressure hysteresis	±0.4		±0.2				±0.4		%FS	

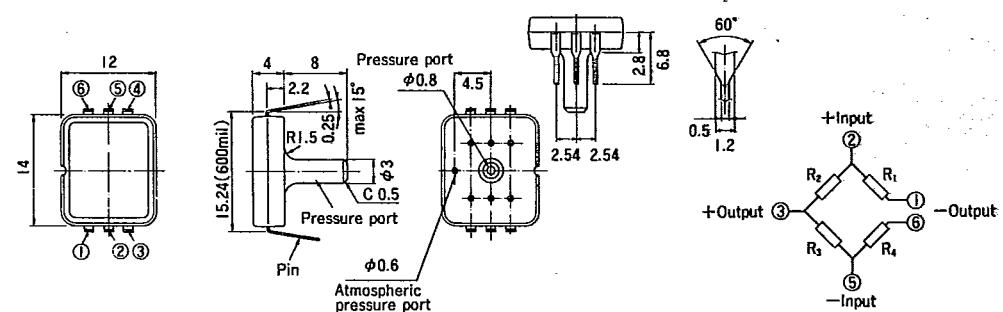
NOTES: *1) PGR manufactured upon request

*2) For temperature range from 0 to 50°C

*3) Temperature Sensitivity of Offset

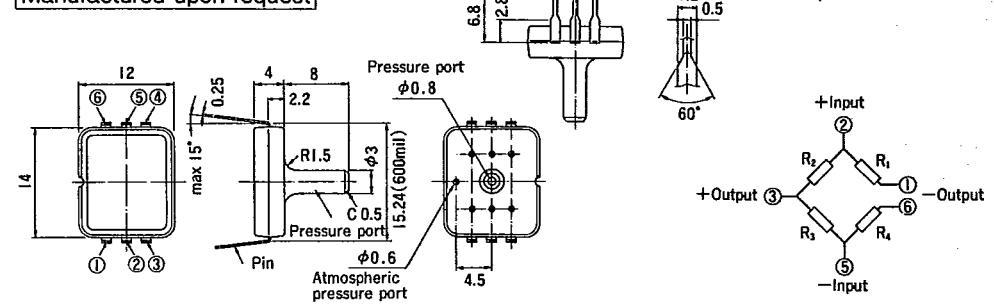
Dimensions and electrical pin connections

FPM-□PG, FPN-07PG

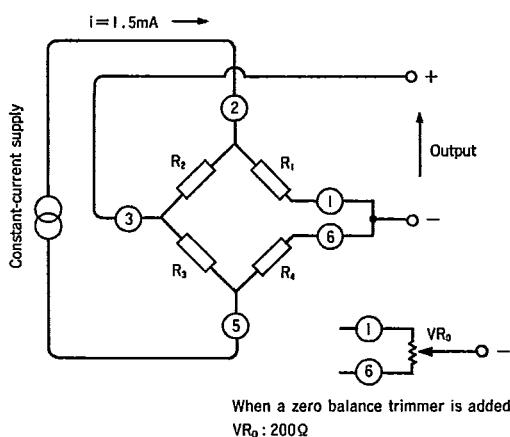


FPM-□PGR, FPN-07PGR

Manufactured upon request

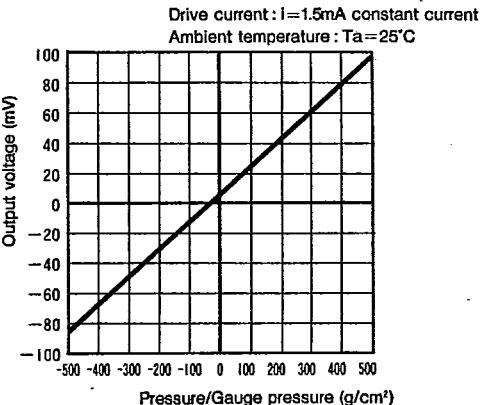


Example of electrical connection

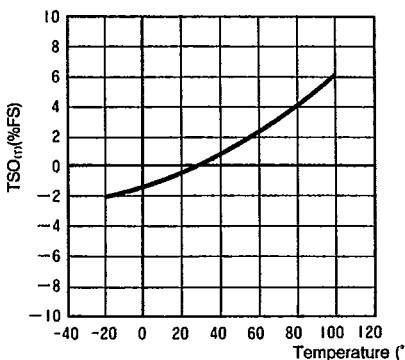


Example of characteristics (with FPM-07PG as representative)

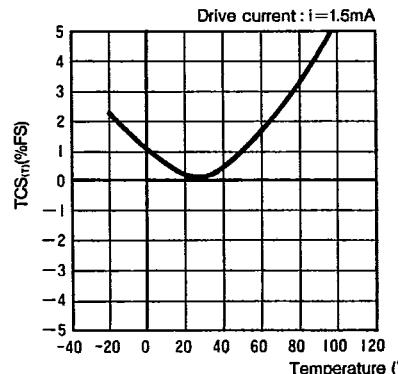
Example of output characteristics (FPM-07PG)



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 Pg/cm² and temperature T°C

$SV_{(T)}$: Output span voltage at temperature T°C

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

TSO at T°C is defined as TSO_(T) (%FS)
 $:= (V_{(0, T)} - V_{(0, 25)}) / SV_{(25)} \times 100$

TCS at T°C is defined as TCS_(T) (%FS)
 $:= (SV_{(T)} - SV_{(25)}) / SV_{(25)} \times 100$