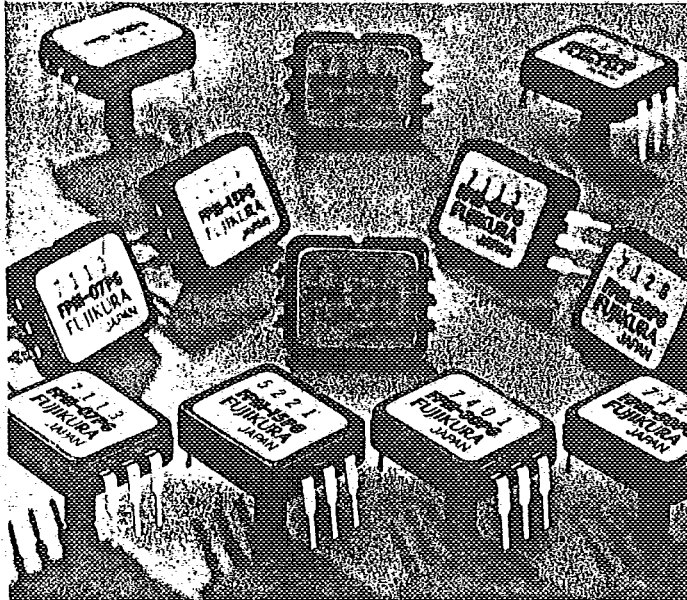


FPM Series*High-accuracy, low-priced plastic mold DIP type*

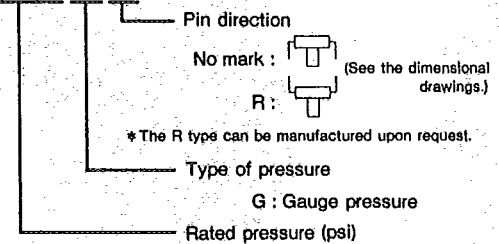
T-65-13

**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**

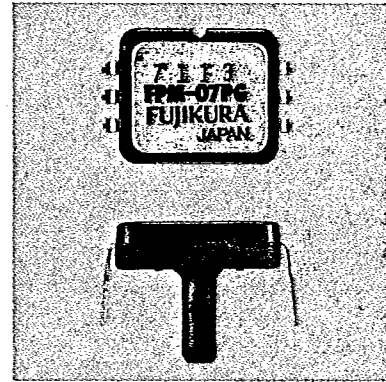
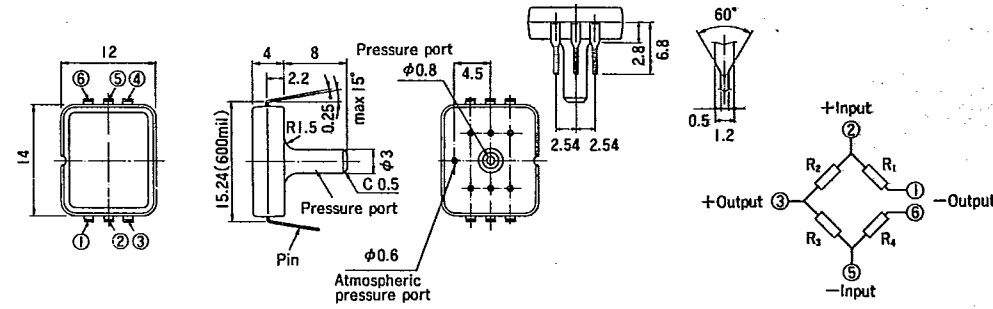
*For definitions on the specification items, refer to pp.15 and 16 of our Technical Information.

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/cm ²		
	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	-	-	-	-	-	kg/cm ²		
	+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									°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	
Accuracy	TSO*3	± 5							%FS / 50°C		**
	TCS*4	2.5							%FS / 50°C		**
	Linearity	± 0.5	± 0.3				± 0.5	± 0.6	%FS		
	Pressure hysteresis	± 0.4	± 0.2				± 0.4		%FS		

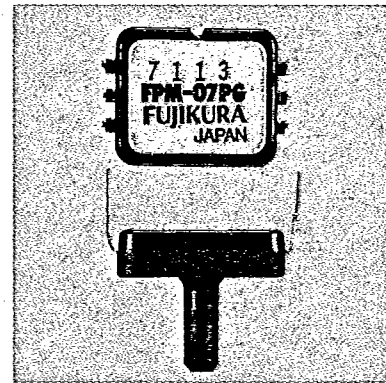
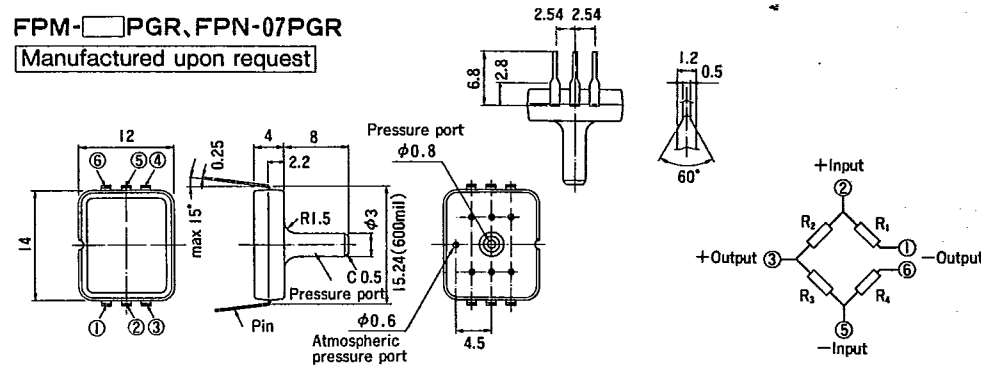
NOTES: *1) PGR manufactured upon request
 *2) For temperature range from 0 to 50°C
 *3) Temperature Sensitivity of Offset
 *4) Temperature Coefficient of Span output

Dimensions and electrical pin connections

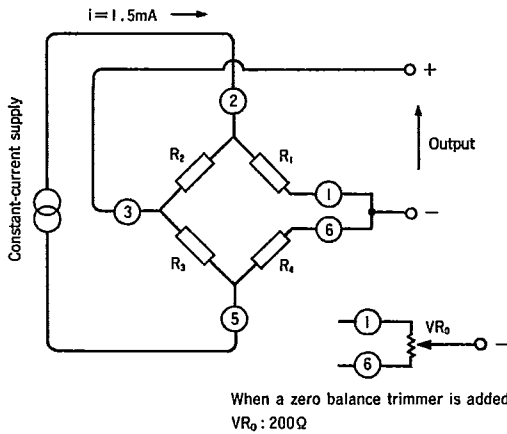
FPM-□PG, FPN-07PG



FPM-□PGR, FPN-07PGR
Manufactured upon request

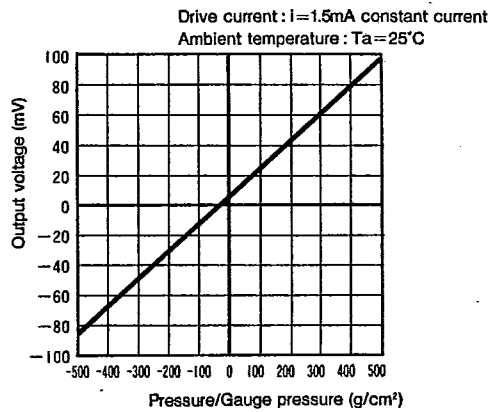


Example of electrical connection

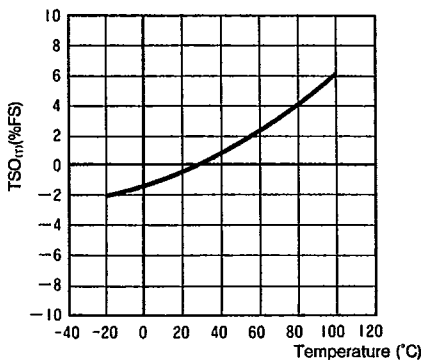


Example of characteristics (with FPM-07PG as representative)

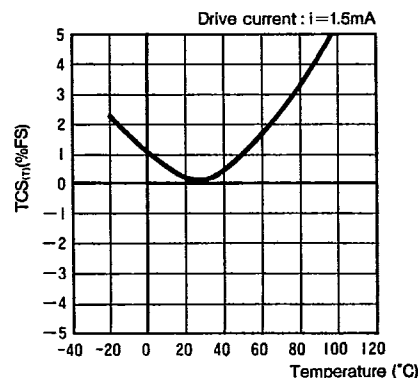
● Example of output characteristics (FPM-07PG)



● 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 Pg/cm² and temperature T°C
- $SV_{(T)}$: Output span voltage at temperature T°C

$$= V_{(42.2,T)} - V_{(0,T)}$$

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)

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