

Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new **Interactive Catalog**. The **Interactive Catalog** is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



**Click this icon to try the new
Interactive Catalog.**

Sensing and Control

Honeywell Inc.

11 West Spring Street

Freeport, Illinois 61032

Pressure Sensors

High Pressure Gage, Vacuum Gage/Amplified

240PC Series



- FEATURES**
- Internal O-Ring seals for contamination resistance
 - Screw-in or flat-pack mounting
 - Rugged aluminum housing

**240PC SERIES PERFORMANCE CHARACTERISTICS at 8.0 ±0.01 VDC
Excitation, 25°C**

	Min.	Typ.	Max.	Units
Excitation	7.00	8.00	16.0	VDC
Supply Current	---	8.00	20.0	mA
Current Sourcing Output	---	---	10	mA
Null Offset (241/242PC) *	0.95	1.00	1.05	V
Null Offset (243PC) **	3.45	3.50	3.55	V
Output at Full Pressure**	5.80	6.00	6.20	V
Span (241/242PC)	4.80	5.00	5.20	V
Span (243PC)	---	±2.5	---	V
Ratiometricity Error				
7 to 8 V or 8 to 9 V	---	±0.50	---	%Span
9 to 12 V	---	±2.00	---	
Stability over One Year	---	±0.50	---	%Span
Response Time	---	---	1.00	msec
Weight	---	85	---	grams
Short Circuit Protection	Output may be shorted indefinitely to ground			
Output Ripple	None, DC device			
Ground Reference	Supply and output are common			

*Positive (or negative) pressure measurement
** Positive and negative pressure measurement

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	−40° to +85°C (−40° to +185°F)
Storage Temperature	−40° to +85°C (−40° to +185°F)
Compensated Temperature	−18° to +63°C (0° to +145°F)
Shock	MIL-STD-202, Method 213 (50 g, half sine, 6 msec)
Vibration	MIL-STD-202, Method 204 (10 to 2000 Hz at 10 g)
Media	P2 port Wetted materials; die-cast aluminum housing, O-ring seal, silicon, borosilicate glass, and silicon-to-glass bond*

*Liquid media containing some highly ionic solutions could potentially neutralize the chip-to-glass tube bond.

Amplified

High Pressure Gage, Vacuum Gage/Amplified

241/242PC SERIES ORDER GUIDE, GAGE AND VACUUM GAGE, Buna-N O-Ring Port Seal

Catalog Listing	Pressure Range psi	Null & Sensitivity Shift (%Span)		Sensitivity V/psi	Overpressure psi Max.	Linearity, % Span B.F.S.L., Max.	Repeatability & Hysteresis % Span Typ.
		25 to -18° 25 to +63°C Max.	25 to -40° 25 to 85°C Typ.				
241PC15M*	0-15	±1.0	±2.0	0.330	45	±1.50	±0.25
242PC15M*	0-15	±1.0	±2.0	0.330	45	±1.50	±0.25
242PC30M*	0-30	±1.0	±2.0	0.167	60	±1.50	±0.25
242PC60G	0-60	±1.5	±2.0	0.083	120	±0.50	±0.25
242PC100G	0-100	±1.0	±2.0	0.050	200	±0.50	±0.25
242PC150G	0-150	±1.5	±3.0	0.033	300	±0.50	±0.25
242PC250G	0-250	±1.0	±2.0	0.020	500	±0.50	±0.25

242PC SERIES ORDER GUIDE, GAGE, Ethylene propylene O-Ring Seal

Catalog Listing	Pressure Range psi	Null & Sensitivity Shift (%Span)		Sensitivity V/psi	Overpressure psi Max.	Linearity, % Span B.F.S.L., Max.	Repeatability & Hysteresis % Span Typ.
		25 to -18° 25 to +63°C Max.	25 to -40° 25 to 85°C Typ.				
242PC60GS	0-60	±1.5	±2.0	0.083	120	±0.50	±0.25
242PC100GS	0-100	±1.0	±2.0	0.050	200	±0.50	±0.25
242PC150GS	0-150	±1.5	±3.0	0.033	300	±0.50	±0.25
242PC250GS	0-250	±1.0	±2.0	0.020	500	±0.50	±0.25

243PC SERIES ORDER GUIDE, VACUUM GAGE, Buna-N Port Seal

Catalog Listing	Pressure Range psi	Null & Sensitivity Shift (%Span)		Sensitivity V/psi	Overpressure psi Max.	Linearity, BFSL		Repeatability & Hysteresis % Span Typ.
		25 to -18° 25 to +63°C Max.	25 to -40° 25 to 85°C Typ.			P2 > P1 Max.	P2 < P1 Max.	
243PC15M*	±15	±1	±2.0	0.167	50	±1.50	±0.75	±0.25

*Adhesive between thermoplastic and aluminum instead of O-ring seal.

PORT SEAL O-RING

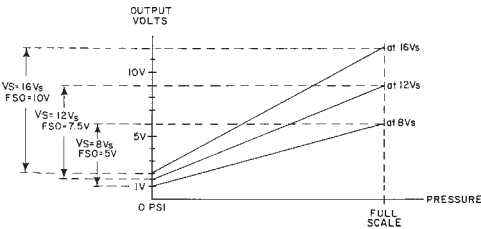
Material	Resistant To:
Buna-N (general use)	Petroleum products, freon 12 and others
Ethylene propylene	Phosphate esters and others

Pressure Sensors

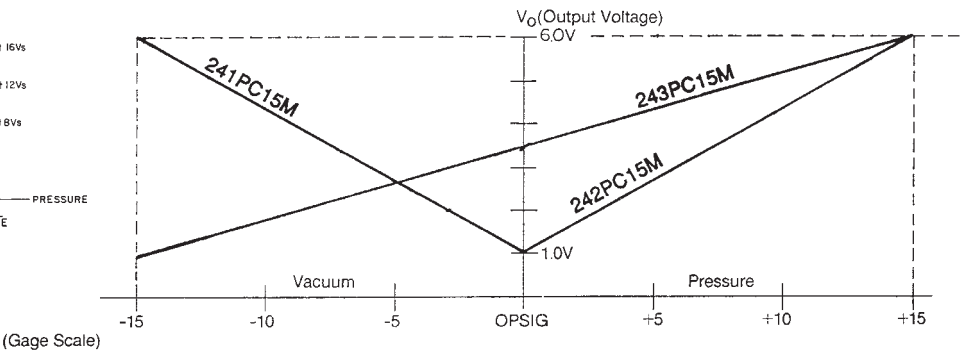
High Pressure Gage, Vacuum Gage/Amplified

240PC Series

RATIOMETRICITY



SCALING OF 240PC SERIES WITH 8V EXCITATION



Ratiometricity refers to the output voltage being directly proportional to supply voltage. 240PC sensors in this catalog are calibrated at 8 VDC supply voltage to provide a 1-6 volt (5 V Span) output swing. For example, if supply increases by 50% to 12 VDC, the output voltage increased by 50% to 1.5-9 volts (7.5 V Span).

NOTE
The output is not perfectly ratiometric. See Accuracy specifications for the degree of error.

242PC15M	Gage	V _o = 1 V at 0 psig & 6 V at 15 psig
241PC15M	Vacuum Gage	V _o = 1 V at 0 psig & 6 V at -15 psig
243PC15M	Gage	V _o = 1 V at -15 psig & 6 V at 15 psig

NOTE: 241PC sensors are scaled for greater pressure on the P1 side of the chip. 242PC sensors are scaled for greater pressure on the P2 side of the chip. Other scalings available upon request.

Amplified

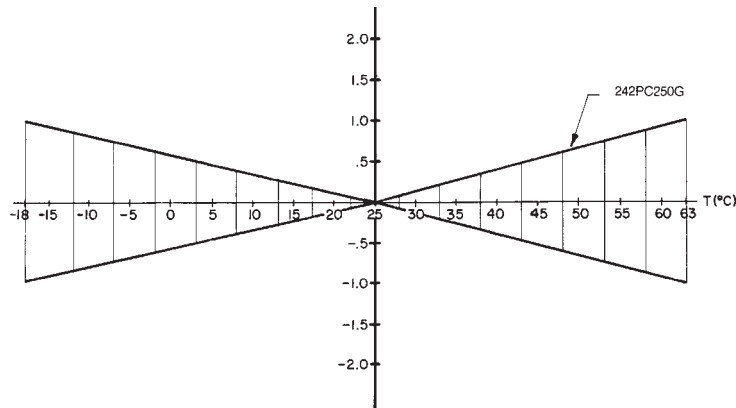
High Pressure Gage, Vacuum Gage/Amplified

NULL AND SENSITIVITY TEMPERATURE SHIFT

Amplified pressure sensors are 100% tested to ensure that the maximum null and sensitivity temperature shift does not exceed the specification. The diagram illustrates how null and sensitivity shift relates to temperature. Note that the maximum shift occurs at temperature extremes. Therefore, if a sensor is not exposed to the entire temperature range, the maximum null and sensitivity shift will actually be less than the value specified.

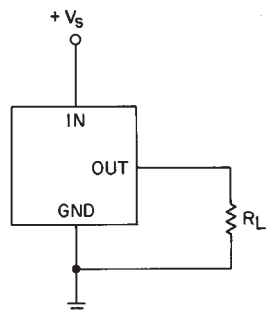
This diagram indicates the temperature shift pertaining to a few listings. Maximum null and sensitivity shift varies from listing to listing.

Null and Sensitivity Shift (% Span)



ELECTRICAL CONNECTIONS

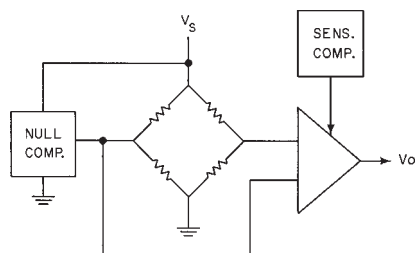
Voltage Excitation



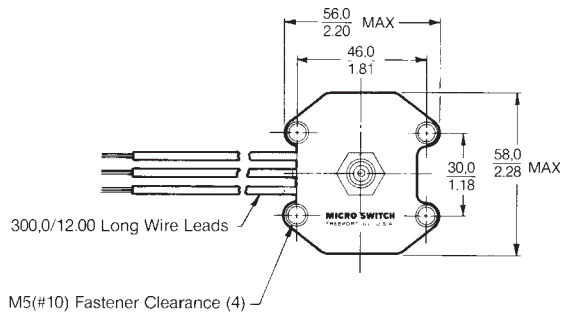
NOTES

1. Terminals are labeled on the sensor.
2. Input and output share a common ground.
3. R_L must be greater than or equal to 3000 ohms.

INTERNAL CIRCUITRY

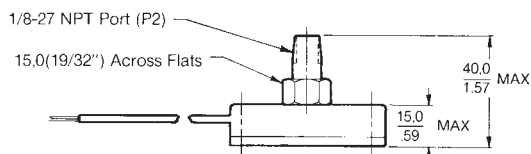


MOUNTING DIMENSIONS (For reference only)



Leadwires

- 1 - Red, V_s
- 2 - Black, Ground (-)
- 3 - Green, Output





**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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