

# Pressure Sensors

240PC Series

## 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
<b>242PC60G</b>	0-60	±1.5	±2.0	0.083	120	±0.50	±0.25
<b>242PC100G</b>	0-100	±1.0	±2.0	0.050	200	±0.50	±0.25
<b>242PC150G</b>	0-150	±1.5	±3.0	0.033	300	±0.50	±0.25
<b>242PC250G</b>	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.	
<b>243PC15M*</b>	±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

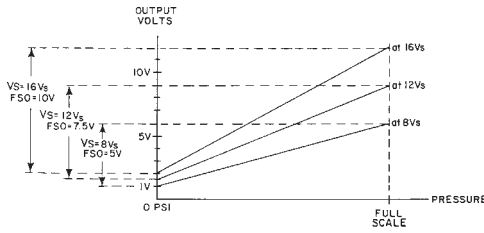
Material	Resistant To:
Buna-N (general use)	Petroleum products, freon 12 and others
Ethylene propylene	Phosphate esters and others

# Pressure Sensors

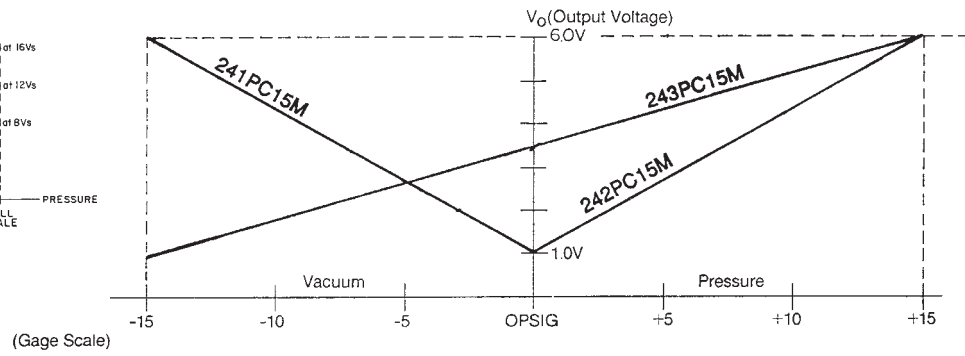
## High Pressure Gage, Vacuum Gage/Amplified

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	$V_o = 1 \text{ V at } 0 \text{ psig \& } 6 \text{ V at } 15 \text{ psig}$
241PC15M	Vacuum Gage	$V_o = 1 \text{ V at } 0 \text{ psig \& } 6 \text{ V at } -15 \text{ psig}$
243PC15M	Gage	$V_o = 1 \text{ V at } -15 \text{ psig \& } 6 \text{ V at } 15 \text{ psig}$

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