Honeywell

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.

These PDF files are no longer being updated and will be removed by January 2001.



Click this icon to try the new Interactive Catalog.

Sensing and Control Honeywell Inc. 11 West Spring Street Freeport, Illinois 61032



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

Min.	Тур.	Max.	Units
7.00	8.00	16.0	VDC
	8.00	20.0	mA
		10	mA
0.95	1.00	1.05	V
3.45	3.50	3.55	V
5.80	6.00	6.20	V
4.80	5.00	5.20	V
	±2.5		V
	±0.50 ±2.00		%Span
	±0.50		%Span
		1.00	msec
	85		grams
Output	may be sho	rted indefir	nitely to ground
None, D	C device		
Supply	and output	are commo	on
	7.00 0.95 3.45 5.80 4.80 Output 1 None, D	7.00 8.00 8.00 8.00 0.95 1.00 3.45 3.50 5.80 6.00 4.80 5.00 ±2.5 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 85 Output may be sho None, DC device	7.00 8.00 16.0 8.00 20.0 10 0.95 0.95 1.00 1.05 3.45 3.50 3.55 5.80 6.00 6.20 4.80 5.00 5.20 ±2.5 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 ±0.50 85 Output may be shorted indefin

*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

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

		Null & Sensitivit	ty Shift (%Span)			Linearity,	Repeatability
Catalog Listing	Pressure Range psi	25 to −18° 25 to +63°C Max.	25 to −40° 25 to 85°C Typ.	Sensitivity V/psi	Overpressure psi Max.	%Span B.F.S.L., Max.	& Hysteresis % Span 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

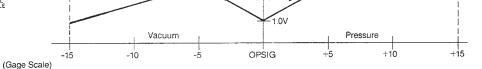
243PC SERIES ORDER GUIDE, VACUUM GAGE, Buna-N Port Seal

		Null & Sensitivit	y Shift (%Span)			1.1	DEOL	Repeatability
	Pressure	25 to −18°	25 to −40°		Overpressure	Linearit	Y, BFSL	& Hysteresis
Catalog Listing	Range psi	25 to +63°C Max.	25 to 85°C Typ.	Sensitivity V/psi	psi Max.	P2 > P1 Max.	P2 < P1 Max.	% Span Typ.
	· ·							
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



(Gage Ratiometricity refers to the output voltage

SCALE

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 $V_{\circ} = 1 \text{ V}$ at 0 psig & 6 V at -15 psig	
243PC15M Gage $V_{\circ} = 1 \text{ V at } -15 \text{ psig } \& 6 \text{ V at } 15 \text{ psig}$	

ied

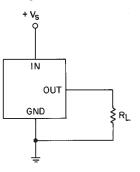
NOTE: 241PC sensors are scaled for greater pressure on the P1 side of the chip. 242PC sensors are scaled for greater pressure on the P2 side of the chip. Other scalings available upon request.

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.

ELECTRICAL CONNECTIONS

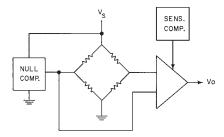


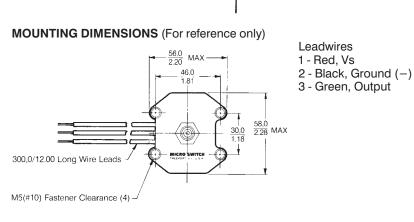


NOTES

- 1. Terminals are labeled on the sensor.
- 2. Input and output share a common ground.
- 3. \bar{R}_{L} must be greater than or equal to 3000 ohms.

INTERNAL CIRCUITRY



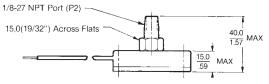


-.5-

-1.0-

-1.5-

-2.0-



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 76311-05
 76577-00000070-01
 76584-M00000100-24
 77343-24.0H2-01
 77343-25.0H2-01
 78291-B0000060-01
 78303-B00000400-01

 78303-B00000400-05
 78316-B0000030-01
 78353-B0000020-05
 78665-0000014-05
 78677-B00000070-05
 78678-0000040-01
 79279

 0000060-01
 79296-B00000350-01
 79322-00250035-01
 79614-30.0H2-14
 79670-0000090-15
 79700-00002750-01
 79917-B00000280-01

 80569-00700100-01
 81509081
 81739-B00000900-01
 81807-B0000020-01
 MLH010BST14A
 MLH025BGC13B

 MLH025BSCDJ1292
 MLH025BSCDJ1303
 MLH750PSCDJ1245
 82903-B0000020-01
 83250-02500600-05
 83271-0000040-04
 83278

 B00000200-21
 83286-00000150-01
 83299-00000150-05
 83303-00000600-01
 83305-00001350-01
 83330-000001470-24

 83350-04.0HG-05
 83357-00000030-21
 83305-00001350-01
 83330-000001470-24