



26PCDFA6D



Actual product appearance may vary.

Pressure Sensors: Measurement Type:
Gage, Vacuum Gage, Wet/Wet
Differential; Signal Conditioning:
Unamplified; Pressure Range: ± 30.0
psi; Port Style: Straight

Features

- True wet/wet differential sensing
- Lowest priced sensor with temperature compensation and calibration
- Operable after exposure to frozen conditions
- Calibrated null and span
- Temperature compensated
- Provides interchangeability
- Can be used to measure vacuum or positive pressure

Potential Applications

Medical

- Oxygen and nitrogen gas distribution in hospitals
- Dental chairs

Environmental

- Water control valves
- Instrumentation
- Irrigation equipment
- Filter monitoring equipment

Industrial Instrumentation

- Robotics
- Pressure valves
- Leak detection
- Air compressors

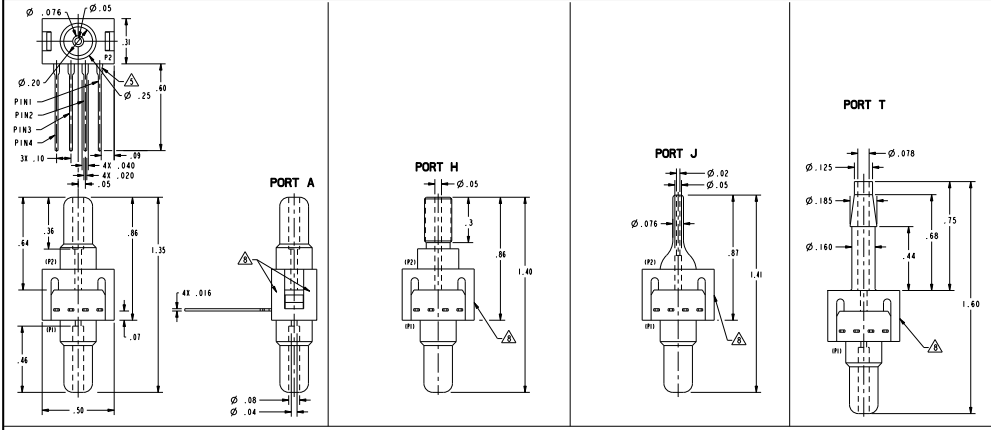
Analytical Instrumentation

- Gas chromatography

Description

The factory calibrated 26PC Series miniature pressure sensors provide reliable differential pressure sensing performance in a compact package. The sensor features a proven sensing technology that utilizes a specialized piezoresistive micro-machined sensing element which allows part interchangeability, high performance, reliability, and accuracy. The low power, non-amplified, non-compensated Wheatstone bridge circuit design provides inherently stable mV outputs over 1.0 psi to 250 psi sensing ranges.

Product Specifications	
Measurement Type	Wet-Wet Differential/Gage/ Vacuum Gage
Signal Conditioning	Unamplified
Pressure Range	± 30.0 psi
Maximum Overpressure	60.0 psi
Supply Voltage	10.0 Vdc typ., 16.0 Vdc max.
Compensated	Yes
Output Calibration	Yes
Response Time	1 ms max.
Termination	PCB; 1 x 4; 0.600 in
Port Style	Straight
Package Style	Honeywell - 20PC
Linearity	0.10% span typ., 0.20% span max.
Typical Sensitivity	3.33 mV/psi
Full Scale Span	100 mV typ.
Null Offset	0 mV typ.
Null Shift over Temperature	± 0.75 typ., ± 1.5 mV max.
Span Shift Over Temperature	± 0.75% span typ., ± 1.5% span max.
Repeatability & Hysteresis Error	± 0.20 % span typ.
Input Resistance	5.5 kOhm min., 7.5 kOhm typ., 11.5 kOhm max.
Output Resistance	1.5 kOhm min., 2.5 kOhm typ., 3.0 kOhm max.
Shock	Qualification tested to 150 g
Vibration	MIL-STD-202 Method 213 (150 g half sine 11 ms)
Weight	2 g [0.07 oz]
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Compensated Temperature Range	0 °C to 50 °C [32 °F to 122 °F]
Storage Temperature Range	-55 °C to 100 °C [-67 °F to 212 °F]
Media Compatibility	Limited to media which will not attack polyetherimide, silicon, flourosilicone, silicone, EPDM and neoprene seals.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	26PC



26PC - .6D

CATALOG LISTING	LASER BRAND	Δ
26PCAF6D	6AF6D	
26PCDF6D	6DF6D	
26PCFF6D	6FF6D	
26PCGF6D	6GF6D	
26PCJF6D	6JF6D	
26PCKF6D	6KF6D	
26PCLF6D	6LF6D	
26PCMF6D	6MF6D	
26PCNF6D	6NF6D	
26PCOF6D	6OF6D	
26PCPF6D	6PF6D	
26PCRF6D	6RF6D	
26PCSF6D	6SF6D	
26PCVF6D	6VF6D	
26PCWF6D	6WF6D	

STYLE
 (D) DIFFERENTIAL TERMINATION
 (E) 1 X 4 (1.60 IN.) PORT
 (A) STRAIGHT
 (H) 5mm THREAD
 (J) SMALL NEEDLE
 (T) LONG BARBED
 SEAL
 (F) FLUOROSILICONE
 (K) NEOPRENE (70 DURO)
 (V) VITON

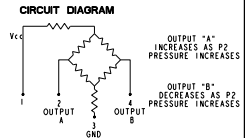
PRESSURE
 (A) 1 PSI
 (B) 5 PSI
 (C) 15 PSI
 (D) 30 PSI
 (E) 100 PSI
 (G) 250 PSI

METRIC	INCHES
0.41	0.016
0.51	0.020
1.02	0.040
1.27	0.050
1.27	0.050
1.27	0.050
1.27	0.050
2.0	0.08
2.0	0.08
2.5	0.10
3.18	0.125
4.08	0.16
4.70	0.185
5.1	0.20
6.4	0.25
7.3	0.29
8.3	0.33
11.2	0.44
11.3	0.46
12.7	0.50
15.3	0.60
16.5	0.64
17.3	0.68
19.1	0.75
21.9	0.86
22.1	0.87
34.3	1.35
35.6	1.40
35.8	1.41
40.6	1.60

- NOTES
 Δ SPAN IS THE ALGEBRAIC DIFFERENCE BETWEEN OUTPUT AT MAXIMUM RATED OPERATING PRESSURE AND OUTPUT AT 0 PSI
 Δ TEMPERATURE ERROR IS CALCULATED WITH RESPECT TO 25°C
 Δ INPUT MEDIA LIMITED ONLY TO THOSE MATERIALS THAT WILL NOT ATTACK SILICON, THE HOUSING MATERIAL OR SEAL MATERIAL
 Δ TERMINALS ARE PLATED FOR SOLDERING (LIMIT SOLDERING TO 315°C FOR 10 SECONDS MAXIMUM)
 Δ PIN # IS IDENTIFIED BY NOTCH IN LEAD
 Δ SENSOR IS OPERATIONAL OVER VACUUM PRESSURE RANGE
 Δ RATIO METRIC TO SUPPLY VOLTAGE
 Δ CATALOG LISTING AND DATE CODE HERE; ALTERNATE FORMAT OF CATALOG LISTING BRAND IS THE ENTIRE CATALOG LISTING

GENERAL OPERATING CHARACTERISTICS
 (ELECTRICAL PERFORMANCE AT 10.00 ±0.01 VDC EXCITATION, 25 °C)

PRESSURE RANGE (PSI)	0 - 5			0 - 15			0 - 30			0 - 100			0 - 250			UNITS
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
SPAN (P2-P1) Δ	14.7	18.7	47.50	53	97	100	103	98	100	103	99	100	105	143	150	157
SPAN OFFSET	-1.5	0	+1.5	-1.5	0	+1.5	-1.5	0	+1.5	-1.5	0	+1.5	-2.0	0	+2.0	
LINEARITY (BFSL, P2-P1)	TYP MAX			TYP MAX			TYP MAX			TYP MAX			TYP MAX			
BULK SHIFT (0 TO 25 °C, 25 TO 50 °C) Δ	±0.5			±0.5			±0.5			±0.5			±1.0			
SPAN SHIFT (0 TO 25 °C, 25 TO 50 °C) P2-P1 Δ	±1.0			±1.0			±1.0			±1.0			±1.5			
REPEATABILITY AND HYSTERESIS	±0.2			±0.2			±0.2			±0.2			±0.2			
OVERPRESSURE (P2/P1; P1/P2)	20			20			45			60			200			
ALL PRESSURE RANGES	MIN	NOM	MAX	UNITS												
EXCITATION VOLTAGE	10			VDC												
INPUT RESISTANCE	5.5K			7.5K	1.5K	OHMS										
OUTPUT RESISTANCE	1.5K			2.5K	3.0K	OHMS										
RESPONSE TIME	1.0			MS												
TEMPERATURE RANGES																
STORAGE	-55 °C TO +100 °C (-67 °F TO +212 °F)															
OPERATE	-40 °C TO +85 °C (-40 °F TO +185 °F)															
COMPENSATED	0 TO 150 °C (32 °F TO 312 °F)															



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 MICRO SWITCH
 Honeywell Division
 BRIDGE PRESSURE SENSOR
 26PC SERIES CHART 4
 ANSI Y14.5M-1982 APPLICABLE
 THIRD ANGLE PROJECTION
 SCALE 1:1
 UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:
 ONE PLACE ±0.030
 TWO PLACE ±0.015
 THREE PLACE ±0.005
 ANGLES
 WEIGHT 2.02