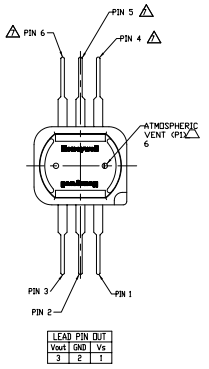
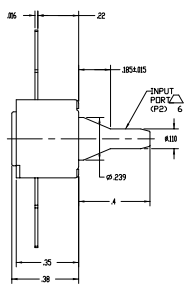
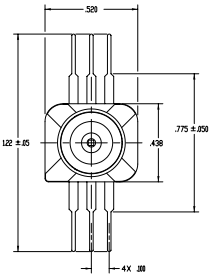
M 40PC SERIES CHART 1



LEAD PIN OUT		
Vout	GND	Vs
3	2	1



LEAD STYLE 1



GENERAL CHARACTERISTICS	
PRESSURE RANGE	SEE CHART
OVERPRESSURE	SEE CHART
TEMPERATURE RANGES 4 STORAGE	-55° TO +125°C -40° TO +135°C
SUPPLY VOLTAGE 5	5.0 Vdc (NOM) ±.25 Vdc
SUPPLY CURRENT	10mA MAX
SHORT CIRCUIT LIMIT	4
OUTPUT SOURCE CURRENT	0.5 mA MAX
OUTPUT SINK CURRENT	1.0 mA MAX
OUTPUT CAPACITANCE	μ
AMBIENT HUMIDITY	0-95% RH

OUTPUT PERFORMANCE AT 25°C AND 5.00±.01 VDC SUPPLY UNLESS NOTED

NULL (0 PSID)	SEE CHART
FULL SCALE	4.500 Vdc TYP
SPAN	SEE CHART
SENSITIVITY	SEE CHART
HYSTERESIS & REPEATABILITY	.025% SPAN TYP

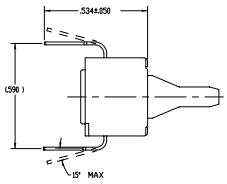
	0 TO -15 PSI	0 TO 15 PSI	0 TO 30 PSI	0 TO 100 PSI	0 TO 150 PSI	0 TO 250 PSI	0 TO 500 PSI 6	0 TO 300 mmHg
TEMPERATURE ERROR 1								
NULL SHIFT								
+25° TO -18°C	±0.75% SPAN MAX	±2.00% SPAN MAX	±1.50% SPAN MAX	±1.25% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±1.00% SPAN MAX	±1.25% SPAN MAX
+25° TO +63°C		±2.00% SPAN MAX	±1.50% SPAN MAX	±1.25% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±1.00% SPAN MAX	±1.25% SPAN MAX
+25° TO -45°C	±1.00% SPAN MAX	±2.75% SPAN MAX	±1.75% SPAN MAX	±2.00% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±1.50% SPAN MAX	±2.75% SPAN MAX
+25° TO +85°C	±1.00% SPAN MAX	±2.75% SPAN MAX	±2.00% SPAN MAX	±2.00% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±1.50% SPAN MAX	±2.50% SPAN MAX
+25° TO +125°C 2			±2.25% SPAN MAX	±3.00% SPAN MAX	±1.50% SPAN MAX	±2.00% SPAN MAX	±2.50% SPAN MAX	±2.50% SPAN MAX
SPAN SHIFT								
+25° TO -18°C	±2.00% SPAN MAX	±0.75% SPAN MAX	±1.50% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX
+25° TO +63°C		±0.75% SPAN MAX	±1.50% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX
+25° TO -45°C	±2.25% SPAN MAX	±1.00% SPAN MAX	±1.75% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±2.00% SPAN MAX
+25° TO +85°C	±1.25% SPAN MAX	±1.00% SPAN MAX	±2.00% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±1.75% SPAN MAX
+25° TO +125°C 2			±2.25% SPAN MAX	±2.00% SPAN MAX	±1.50% SPAN MAX	±2.00% SPAN MAX	±1.50% SPAN MAX	±1.75% SPAN MAX
COMBINED NULL AND SPAN SHIFT								
+25° TO -18°C	±1.50% SPAN MAX	±2.00% SPAN MAX	±2.00% SPAN MAX	±1.50% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±1.00% SPAN MAX	±1.50% SPAN MAX
+25° TO +63°C		±2.00% SPAN MAX	±2.00% SPAN MAX	±1.50% SPAN MAX	±0.75% SPAN MAX	±0.75% SPAN MAX	±1.00% SPAN MAX	±1.50% SPAN MAX
+25° TO -45°C	±1.75% SPAN MAX	±3.00% SPAN MAX	±2.50% SPAN MAX	±2.50% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±1.75% SPAN MAX	±4.00% SPAN MAX
+25° TO +85°C	±1.00% SPAN MAX	±3.00% SPAN MAX	±2.50% SPAN MAX	±2.50% SPAN MAX	±1.00% SPAN MAX	±1.00% SPAN MAX	±1.50% SPAN MAX	±4.00% SPAN MAX
+25° TO +125°C 2			±2.50% SPAN MAX	±3.00% SPAN MAX	±1.50% SPAN MAX	±3.00% SPAN MAX	±3.00% SPAN MAX	±4.00% SPAN MAX
LINEARITY (BFSL)	±.30% SPAN MAX	±.20% SPAN MAX	±.30% SPAN MAX	±.10% SPAN MAX	±.10% SPAN MAX	±.30% SPAN MAX	±.20% SPAN MAX	±0.20% SPAN MAX
ACCURACY (25°C) RSS 3	±0.42 SPAN	±0.43 SPAN	±0.42% SPAN MAX	±0.2% SPAN	±0.2% SPAN	±0.2% SPAN	±0.2% SPAN	±0.40% SPAN MAX
TOTAL ACCURACY 3 -18 to 63°C		±4.0% SPAN MAX	±1.50% SPAN MAX	±2.5% SPAN MAX	±2% SPAN MAX	±2% SPAN MAX	±2% SPAN MAX	±2.00% SPAN MAX
-45 to 85°C	±2.25% SPAN MAX	±4.0% SPAN MAX	±1.75% SPAN MAX	±2.5% SPAN MAX	±2% SPAN MAX	±2% SPAN MAX	±3% SPAN MAX	±4.00% SPAN MAX
-45 TO 125°C 3			±2.25% SPAN MAX	±3.0% SPAN MAX	±2.50% SPAN MAX	±3% SPAN MAX	±3% SPAN MAX	±4.00% SPAN MAX

NOTES
1. TEMPERATURE ERROR IS THE MAXIMUM DEVIATION FROM 25° PERFORMANCE OVER THE ENTIRE TEMPERATURE RANGE SHOWN
2. ACCURACY IS DEFINED AS THE 25C, RSS ERRORS FOR LINEARITY, HYSTERESIS AND REPEATABILITY
3. TOTAL ACCURACY IS THE MAXIMUM DEVIATION FROM THE 25C REFERENCE TRANSFER FUNCTION AT ANY PRESSURE OR TEMPERATURE OVER THE SPECIFIED RANGES
4. OUTPUT CAN BE SHORTED TO THE POSITIVE TERMINAL OR THE GROUND TERMINAL
5. PRODUCT 100% TESTED AT THE -45 TO +85°C RANGE ONLY
6. INPUT MEDIA-
   P1 - DRY GASES ONLY; MEDIA MUST BE COMPATIBLE WITH EPOXY BASED ADHESIVE
   P2 - MEDIA MUST BE COMPATIBLE WITH GLASS, SILICON, STAINLESS STEEL, INVAR, Sn/Ni PLATING OR Sn/Ag SOLDER
7. PINS 4, 5 OR 6 ARE INTERNAL DEVICE CONNECTIONS, DO NOT CONNECT TO EXTERNAL CIRCUITRY OR GROUND. EXCEPT FOR AUTOMOTIVE GRADE
8. PRODUCT TESTED AT 250 PSI
9. 500 PSI HAS A BURST PRESSURE UP TO 1250 PSI

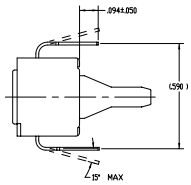
40PC _ _ _ _ _ _ _ _

- PRESSURE RANGE
  - 015 – 0 TO 15 PSI
  - 100 – 0 TO 100 PSI
  - 150 – 0 TO 150 PSI
  - 250 – 0 TO 250 PSI
  - 500 – 0 TO 500 PSI
  - 030 – 0 TO 30 PSI
  - 006 – 0 TO 300 mmHg
- PRESSURE TYPE
  - G – GAGE
  - V – VACUUM
- LEAD STYLE
  - A – 1 – UNFORMED STRAIGHT
  - 2 – FORMED AWAY FROM PORT
  - F – FORMED TOWARDS PORT
- PORT STYLE
- JOINT
  - S – AUTOMOTIVE GRADE
  - T – ENHANCED SOLDER

CATALOG LISTING	LEAD STYLE	PRESSURE RANGE	OVER-PRESSURE	SENSITIVITY	OUTPUT PERFORMANCE AT 25°C AND 5.00±.01 VDC SUPPLY: NULL (0 PSIG)	SPAN VDC
40PC015G3A	1	0 TO 15 PSI	45 PSI	266.6 mV/PSI TYP	500±50	4.000±.120
40PC015G2A	2	0 TO 15 PSI	45 PSI	266.6 mV/PSI TYP	500±110	4.000±.120
40PC015G3A	3	0 TO 15 PSI	45 PSI	266.6 mV/PSI TYP	500±110	4.000±.120
40PC100G1A	1	0 TO 100 PSI	200 PSI	40.0 mV/PSI TYP	500±.040	4.000±.090
40PC100G2A	2	0 TO 100 PSI	200 PSI	40.0 mV/PSI TYP	500±.040	4.000±.090
40PC100G3A	3	0 TO 100 PSI	200 PSI	40.0 mV/PSI TYP	500±.040	4.000±.090
40PC150G1A	1	0 TO 150 PSI	300 PSI	26.6 mV/PSI TYP	500±.040	4.000±.070
40PC150G2A	2	0 TO 150 PSI	300 PSI	26.6 mV/PSI TYP	500±.040	4.000±.070
40PC150G3A	3	0 TO 150 PSI	300 PSI	26.6 mV/PSI TYP	500±.040	4.000±.070
40PC250G1A	1	0 TO 250 PSI	500 PSI	16.0 mV/PSI TYP	500±.040	4.000±.070
40PC250G2A	2	0 TO 250 PSI	500 PSI	16.0 mV/PSI TYP	500±.040	4.000±.070
40PC250G3A	3	0 TO 250 PSI	500 PSI	16.0 mV/PSI TYP	500±.040	4.000±.070
40PC500G1A	1	0 TO 500 PSI	1000 PSI	8.0 mV/PSI TYP	500±.040	4.000±.090
40PC500G2A	2	0 TO 500 PSI	1000 PSI	8.0 mV/PSI TYP	500±.040	4.000±.090
Ⓒ	3	0 TO 500 PSI	1000 PSI	8.0 mV/PSI TYP	500±.040	4.000±.090
40PC015V1A	1	0 TO -15 PSI	30 PSI	266.6 mV/PSI TYP	500±.040	4.0±.1
40PC015V2A	2	0 TO -15 PSI	30 PSI	266.6 mV/PSI TYP	500±.040	4.0±.1
40PC015V3A	3	0 TO -15 PSI	30 PSI	266.6 mV/PSI TYP	500±.040	4.0±.1
40PC030G1A	1	0 TO 30 PSI	60 PSI	133.3 mV/PSI TYP	500±.040	4.000±.080
40PC030G2A	2	0 TO 30 PSI	60 PSI	133.3 mV/PSI TYP	500±.040	4.000±.080
Ⓒ	3	0 TO 30 PSI	60 PSI	133.3 mV/PSI TYP	500±.040	4.000±.080
40PC006G1A	1	0 TO 300 mmHg	650 mmHg	13.33 mV/mmHg	500±.050	4.000±.050
40PC006G2A	2	0 TO 300 mmHg	650 mmHg	13.33 mV/mmHg	500±.050	4.000±.050
40PC006G3A	3	0 TO 300 mmHg	650 mmHg	13.33 mV/mmHg	500±.050	4.000±.050
40PC150G1AS	1	0 TO 150 PSI	300 PSI	26.6 mV/PSI TYP	500±.040	4.000±.070
40PC150G1AT	1	0 TO 150 PSI	300 PSI	26.6 mV/PSI TYP	500±.040	4.000±.070



LEAD STYLE 2



LEAD STYLE 3

CAUTION ELECTROSTATIC SENSITIVE DEVICES
DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION
ESD SENSITIVITY: CLASS 1

ANSI Y14.5M-1982 APPLIES

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FOR MFG USE ONLY	CATALOG LISTING	
MICRO SWITCH a Honeywell Division	PRESSURE SENSOR	40PC SERIES CHART 1

THIRD ANGLE PROJECTION
SCALE 1:1
DO NOT SCALE PRINT
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE
ONE PLACE .0 ±.030
TWO PLACE .00 ±.015
THREE PLACE .000 ±.005
ANGLES ±°
WEIGHT

PTC/CAD

ZONE	REVISIONS	DATE	APPROVED
A	40PC SERIES CHART 1	19 FEB 89	CHM
B	PER CO597		

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