

REV	DOCUMENT	CHANGED BY	CHECK
3	0033382	AB 30AUG07	CMH

SERIES **CPC**

DESIGNATES PRESSURE

- NO DESIGNATION (PSI)

PRESSURE RANGE

05, 15, 30,
60, 100, 150 PSIA

ACCURACY GRADE

C - COMMERCIAL GRADE
H - HIGH GRADE

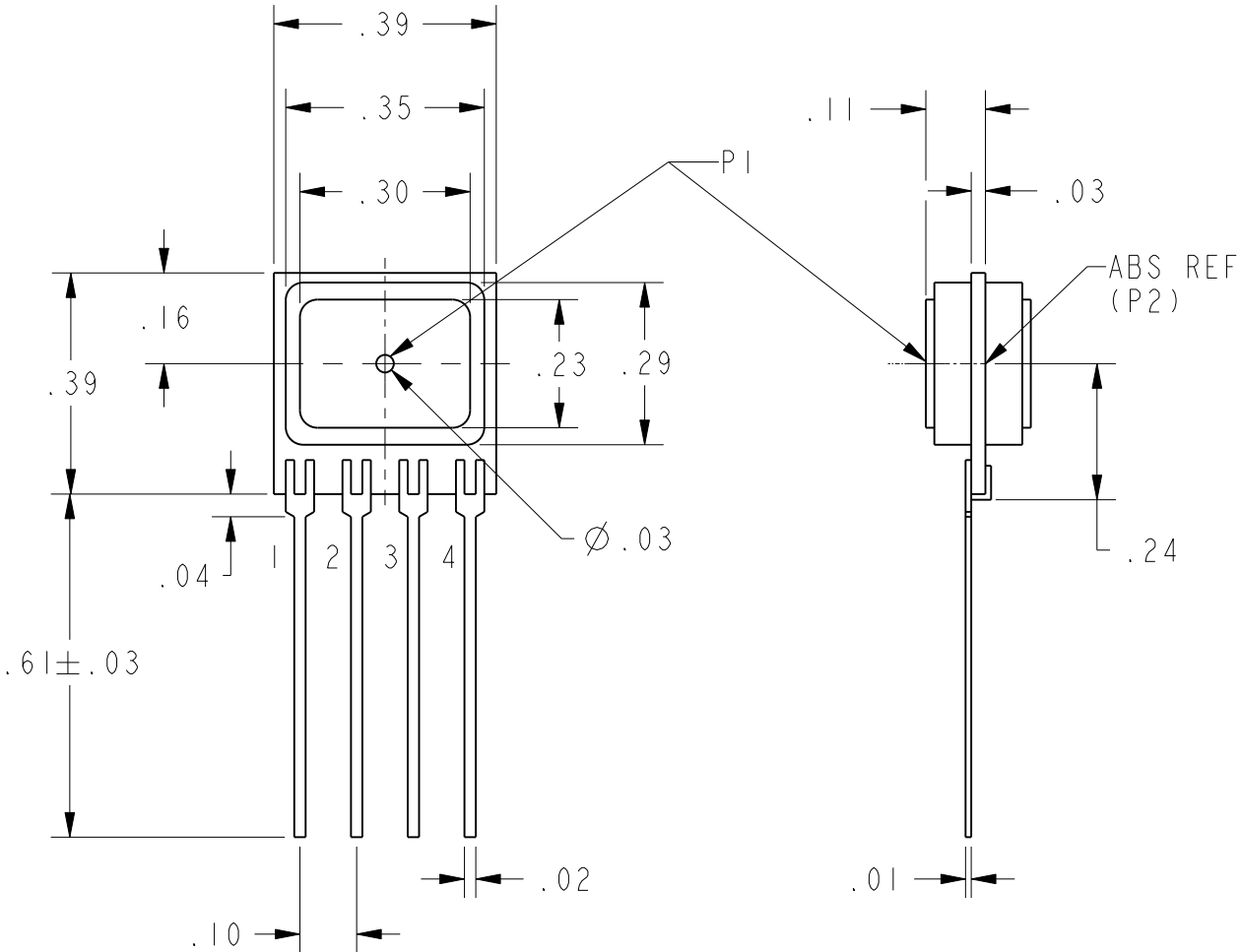
PORT OPTION

F - AXIAL
- NO PORT/O-RING SEAL

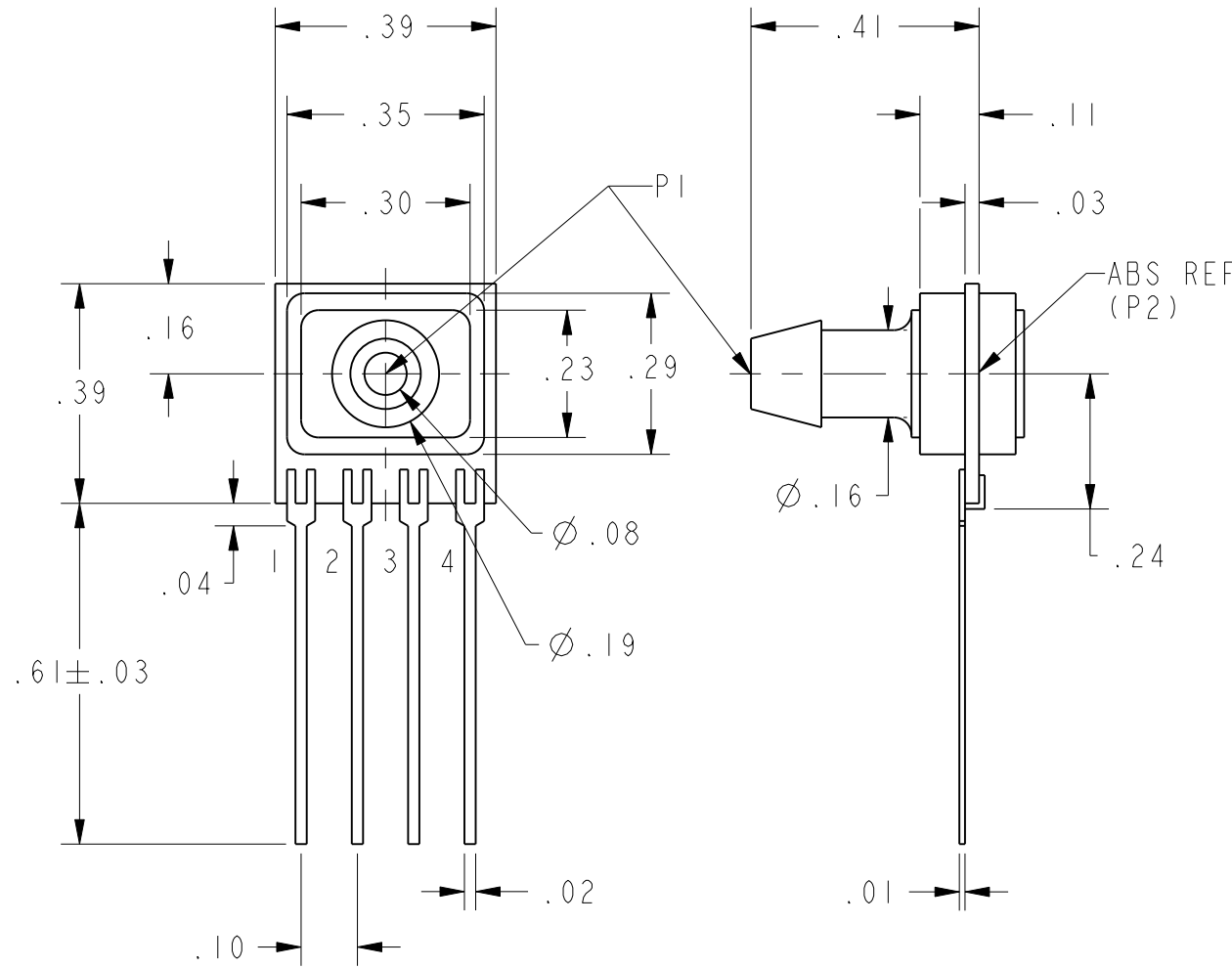
PRESSURE REFERENCE

A - ABSOLUTE

CATALOG LISTINGS
CPC15AC
CPC15AFH
CPC15AFC
CPC15AH
CPC30AFH
③
CPC60AH
CPC100AFC
CPC100AFH
②
CPC150AFH



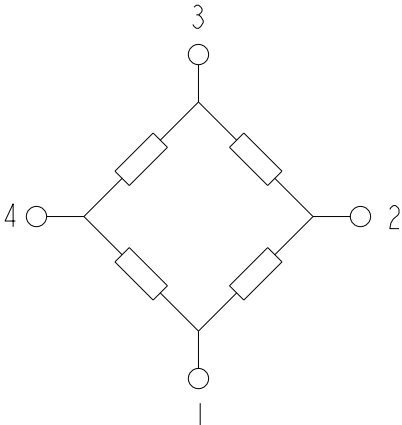
A HOUSING



AF HOUSING

A - STYLE (ABSOLUTE)	PERFORMANCE AT 25°C AND 12±0.01 Vdc (UNLESS OTHERWISE STATED)									
	C-GRADE			H-GRADE			UNITS	FULL SCALE PRESSURE PSI	PROOF PRESSURE PSI	BURST PRESSURE PSI
	MIN	NOM	MAX	MIN	NOM	MAX				
NULL OFFSET (0 PSIA), ALL LISTINGS	-1	0	1	-0.5	0	0.5	mVdc			
5 PSIA SPAN (P1>P2)	57	60	63	59	60	61	mVdc	5	15	25
15 PSIA SPAN (P1>P2)	85	90	95	89	90	91	mVdc	15	45	75
30 PSIA SPAN (P1>P2)	85	90	95	89	90	91	mVdc	30	90	150
60 PSIA SPAN (P1>P2)	85	90	95	89	90	91	mVdc	60	180	300
100 PSIA SPAN (P1>P2)	95	100	105	99	100	101	mVdc	100	250	400
150 PSIA SPAN (P1>P2)	85	90	95	89	90	91	mVdc	150	250	400
NULL SHIFT OVER TEMPERATURE (0-25, 25-70 °C) ②	---	---	±1	---	---	±.5	mV			
SPAN SHIFT OVER TEMPERATURE (0-25, 25-70 °C) ②	---	---	±2	---	---	±1	% SPAN			
COMBINED LINEARITY AND HYSTERESIS ③	---	0.25	1	---	0.25	0.5	% SPAN			

GENERAL OPERATING CHARACTERISTICS	ALL PRESSURES AND GRADES			
	MIN	NOM	MAX	UNITS
EXCITATION VOLTAGE	3	12	16	Vdc
SUPPLY CURRENT	---	---	3.5	mA
INPUT RESISTANCE	5	---	---	K-OHMS
OUTPUT RESISTANCE	---	3	---	K-OHMS
OPERATING TEMPERATURE	-25	---	85	°C
STORAGE TEMPERATURE	-40	---	125	°C



EQUIVALENT CIRCUIT

PIN OUT	
1	-V EXCITATION
2	+ OUTPUT SIGNAL
3	+ V EXCITATION
4	- OUTPUT SIGNAL

NOTES

- 1 - SPAN IS THE ALGEBRAIC DIFFERENCE BETWEEN THE OUPUT AT FULL SCALE PRESSURE AND THE OFFSET OUTPUT
- ② TEMPERATURE ERROR IS CALCULATED WITH RESPECT TO 25°C
- ③ LINEARITY IS MEASURED AT 1/2 FULL SCALE PRESSURE USING BEST STRAIGHT LINE FIT
- 4 - THE OUTPUT OF THE SENSOR IS PROPORTIONAL, RATIOMETRIC, TO THE EXCITATION VOLTAGE. THE EXCITATION MAY VARY BETWEEN 3 TO 16 Vdc. ALL SPECIFICATIONS WILL NOMINALLY BE CHANGED BY THE RATIO OF $V_{EXCITATION}/12.0$ Vdc
- 5 - LIMIT SOLDERING TO 315°C FOR LESS THAN 10 SECONDS
- 6 - PIN 1 IS IDENTIFIED BY THE DOT ON THE HOUSING AS SHOWN ON THE VARIOUS DRAWINGS
- 7 - APPLY PRESSURE TO PORT INDICATED ON THE DRAWINGS SHOWN
- 8 - SENSORS ARE OPERATIONAL OVER VACUUM PRESSURE RANGE
- 9 - INPUT MEDIA RESTRICTED TO DRY GASES ONLY

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: ☒ US (inch) CUSTOMARY ☐ SI (mm) METRIC			DRAWN	TRF	02APR01	Honeywell		
NO PLACE .X ±.040 ±1 ONE PLACE .X ±.030 ±0,4 TWO PLACE .XX ±.015 ±0,15 THREE PLACE .XXX ±.005 ± ANGLES ± RAW MATERIAL-COMMERCIAL STANDARD			CHECK	SAV	02APR01			
THIRD ANGLE PROJECTION			THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.			TITLE PRESSURE SENSOR		
			DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED			SIZE C	DWG TYPE I	DRAWING NAME CPC ABS SERIES CHART 1
3D PTC			ASME Y14.5M-1994			SCALE 3:1	WEIGHT	REV 3
						SHEET 1 OF 1		

Mouser Electronics

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