

REV	DOCUMENT	CHANGED BY	CHECK
14	0038162	BS 24MAR08	ASD

SERIES

DESIGNATES PRESSURE

L - LOW PRESSURE (IN H₂O)
- NO DESIGNATION (PSI)

PRESSURE RANGE

04, 10 IN H₂O
0.3, 01, 05, 15, 30,
60, 100, 150 PSI

CPC

G

ACCURACY GRADE

C - COMMERCIAL GRADE
H - HIGH GRADE

PORT OPTION

F - AXIAL
- NO PORT/O-RING SEAL

PRESSURE REFERENCE

G - GAGE

CATALOG LISTINGS

CPCL04GC	CPC15GFC
CPCL04GFC	CPC15GFH
CPCL10GFC	⑨
CPCL10GFH	CPC30GFC
CPCL10GH	CPC30GFH
⑪	CPC60GFH
CPC0.3GFC	⑨
CPC0.3GFH	CPC60GFC
CPC01GFC	CPC100GFH
CPC01GFH	CPC100GC
CPC01GH	CPC100GFC
CPC05GC	CPC150GFC
CPC05GFC	CPC150GFH
CPC05GFH	SCDA121 CPCL04GFC
CPC05GH	

Technical drawings of G and GF housings. The G housing drawing shows a top view with dimensions: .39, .35, .30, .16, .39, .04, .61±.03, .10, .02, .11, .03, .23, .29, .03, .24, .01. It also shows a side view with dimensions: .11, .03, .24, .01. The GF housing drawing shows a top view with dimensions: .39, .35, .30, .16, .39, .04, .61±.03, .10, .02, .11, .03, .23, .29, .08, .19, .02, .01. It also shows a side view with dimensions: .41, .11, .03, .24, .01. Both drawings indicate port locations P1 and VENT (P2).

G - STYLE (GAGE)	PERFORMANCE AT 25°C AND 12±0.01 Vdc (UNLESS OTHERWISE STATED)									
	C-GRADE			H-GRADE			UNITS	FULL SCALE PRESSURE PSI	OVER PRESSURE PSI	
	MIN	NOM	MAX	MIN	NOM	MAX				
NULL OFFSET (0 PSIG) (L04 LISTING)	-2	0	2	N/A	N/A	N/A	mV			
NULL OFFSET (0 PSIG), ALL LISTINGS EXCEPT L04	-1	0	1	-0.5	0	0.5	mV			
4 IN H ₂ O (PI>P2) (L04 LISTING)	23	25	27	N/A	N/A	N/A	mVdc	4 IN H ₂ O	3	
4 IN H ₂ O (PI>P2) (SCDA121 CPCL04GFC)	23	25	27	N/A	N/A	N/A	mVdc	4 IN H ₂ O	5	
10 IN H ₂ O (PI>P2) (L10 LISTING)	19	20	21	19.5	20	20.5	mVdc	10 IN H ₂ O	5	
0.3 PSI SPAN (PI>P2)	19	20	21	19.5	20	20.5	mVdc	0.3	5	
1 PSI SPAN (PI>P2)	17	18	19	17.5	18	18.5	mVdc	1	5	
5 PSI SPAN (PI>P2)	57	60	63	59	60	61	mVdc	5	15	
15 PSI SPAN (PI>P2)	85	90	95	89	90	91	mVdc	15	45	
30 PSI SPAN (PI>P2)	85	90	95	89	90	91	mVdc	30	90	
60 PSI SPAN (PI>P2)	85	90	95	89	90	91	mVdc	60	180	
100 PSI SPAN (PI>P2)	95	100	105	99	100	101	mVdc	100	250	
150 PSI SPAN (PI>P2)	85	90	95	89	90	91	mVdc	150	250	
NULL SHIFT OVER TEMPERATURE (0-25, 25-70 °C) $\triangle 2 \triangle 10$	---	---	±1	---	---	±.5	mV			
SPAN SHIFT OVER TEMPERATURE (0-25, 25-70 °C) $\triangle 2 \triangle 10$	---	---	±2	---	---	±1	% SPAN			
COMBINED LINEARITY AND HYSTERESIS $\triangle 3$	---	0.25	1	---	0.25	0.5	% SPAN			

GENERAL OPERATING CHARACTERISTICS

	ALL PRESSURES AND GRADES			UNITS
	MIN	NOM	MAX	
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

⑩ THE L04 LISTING HAS A TEMPERATURE SHIFT RANGE FROM 0 TO 25°C AND 25 TO 50°C

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

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			

THIRD ANGLE PROJECTION

DRAWN

TRF

02APR01

CHECK

SAV

02APR01

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.

DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED

3D PTC

ASME Y14.5M-1994

Honeywell

PRESSURE SENSOR

TITLE

SIZE

DWG TYPE

DRAWING NAME

REV

C

I

CPC GAGE SERIES CHART 1

14

SCALE

3:1

WEIGHT

SHEET

1 OF 1