

| REV | DOCUMENT | CHANGED BY | CHECK |
|-----|----------|------------|-------|
| 4   | 0033382  | AB 30AUG07 | CMH   |

**SERIES** **CPX**

**DESIGNATES PRESSURE**

**L** - LOW PRESSURE (IN H<sub>2</sub>O)  
- NO DESIGNATION (PSI)

**PRESSURE RANGE**

**04, 10** IN H<sub>2</sub>O  
**0.3, 01, 05, 15, 30, 60, 100, 150** PSI

**ACCURACY GRADE**

**C** - COMMERCIAL GRADE  
- NO DESIGNATION  
COMMERCIAL GRADE

**PORT OPTION**

**F** - AXIAL  
- NO PORT/O-RING SEAL

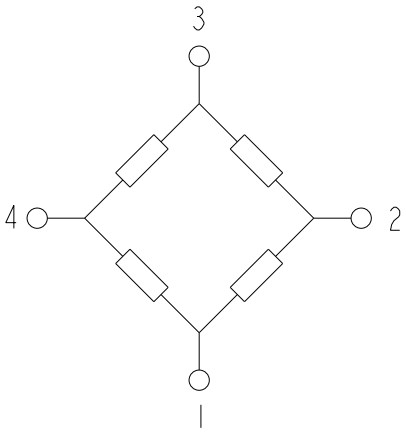
**PRESSURE REFERENCE**

**G** - GAGE

| CATALOG LISTINGS |
|------------------|
| CPXL04GF         |
| CPXL10GF         |
| ④                |
| ③                |
| ③                |
| ④                |
| CPXL100G         |
| ③                |
| ③                |

| CPX/CPXL<br>G STYLE (GAGE)                                                                                            | PERFORMANCE AT 25°C AND 5±0.01 V <sub>dc</sub> (UNLESS OTHERWISE STATED) |       |     |        |                               |                          |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------|-----|--------|-------------------------------|--------------------------|
|                                                                                                                       | C-GRADE                                                                  |       |     | UNITS  | FULL SCALE<br>PRESSURE<br>PSI | PROOF<br>PRESSURE<br>PSI |
|                                                                                                                       | MIN                                                                      | NOM   | MAX |        |                               |                          |
| OFFSET (FOR ALL LISTINGS)                                                                                             | -50                                                                      | 0     | 50  | mV     |                               |                          |
| 4 IN H <sub>2</sub> O SPAN (P1>P2) (L04 LISTING)                                                                      | 50                                                                       | 68    | 86  | mV     | 4 IN H <sub>2</sub> O         | 3                        |
| 10 IN H <sub>2</sub> O SPAN (P1>P2) (L10 LISTING)                                                                     | 45                                                                       | 78.5  | 112 | mV     | 10 IN H <sub>2</sub> O        | 3                        |
| 0.3 PSI SPAN (P1>P2)                                                                                                  | 37                                                                       | 65    | 93  | mV     | 0.3                           | 3                        |
| 1 PSI SPAN (P1>P2)                                                                                                    | 40                                                                       | 75    | 110 | mV     | 1                             | 3                        |
| 5 PSI SPAN (P1>P2)                                                                                                    | 112                                                                      | 168.5 | 225 | mV     | 5                             | 15                       |
| 15 PSI SPAN (P1>P2)                                                                                                   | 168                                                                      | 253   | 338 | mV     | 15                            | 45                       |
| 30 PSI SPAN (P1>P2)                                                                                                   | 168                                                                      | 253   | 338 | mV     | 30                            | 90                       |
| 60 PSI SPAN (P1>P2)                                                                                                   | 189                                                                      | 263.5 | 338 | mV     | 60                            | 180                      |
| 100 PSI SPAN (P1>P2)                                                                                                  | 210                                                                      | 295   | 380 | mV     | 100                           | 250                      |
| 150 PSI SPAN (P1>P2)                                                                                                  | 187                                                                      | 262.5 | 338 | mV     | 150                           | 250                      |
| TEMPERATURE CHANGE BRIDGE RESISTANCE                                                                                  | ---                                                                      | 2800  | --- | ppm/°C |                               |                          |
| TEMPERATURE CHANGE SPAN                                                                                               | ---                                                                      | -1800 | --- | ppm/C° |                               |                          |
| COMBINED LINEARITY AND HYSTERESIS  | ---                                                                      | ---   | 1   | % SPAN |                               |                          |

| GENERAL OPERATING<br>CHARACTERISTICS | ALL PRESSURES AND GRADES |      |     |                 |
|--------------------------------------|--------------------------|------|-----|-----------------|
|                                      | MIN                      | NOM  | MAX | UNITS           |
| EXCITATION VOLTAGE                   | ---                      | 5    | 12  | V <sub>dc</sub> |
| INPUT RESISTANCE                     | ---                      | 3000 | --- | OHMS            |
| OUTPUT RESISTANCE                    | ---                      | 3000 | --- | OHMS            |
| OPERATING TEMPERATURE                | -25                      | 25   | 85  | °C              |
| STORAGE TEMPERATURE                  | -40                      | ---  | 125 | °C              |



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

EQUIVALENT CIRCUIT

NOTES

1 - SPAN IS THE ALGEBRAIC DIFFERENCE BETWEEN THE OUPUT AT FULL SCALE PRESSURE AND THE OFFSET OUTPUT

 LINEARITY IS MEASURED AT 1/2 FULL SCALE PRESSURE USING BEST STRAIGHT LINE FIT

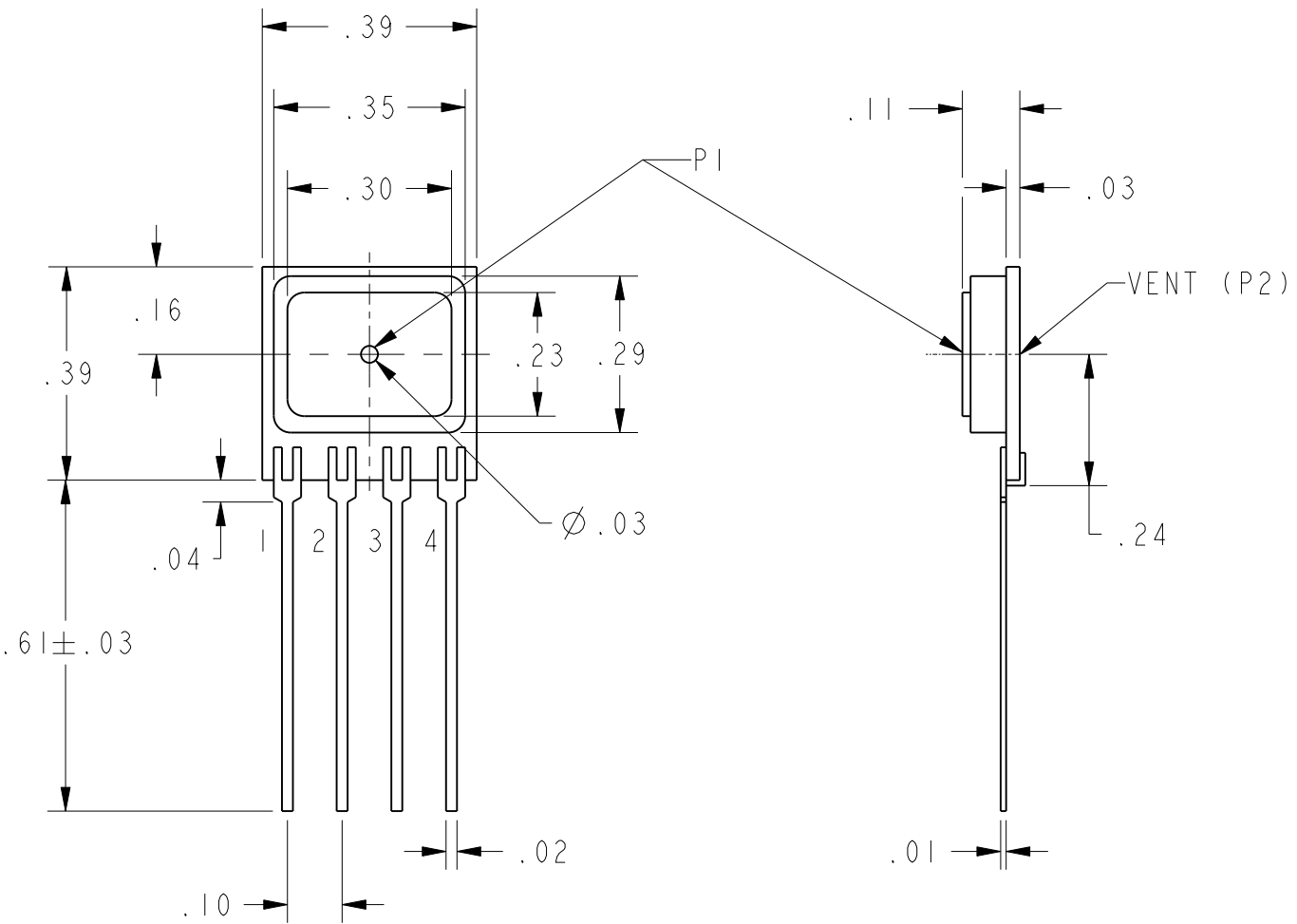
3 - THE OUTPUT OF THE SENSOR IS PROPORTIONAL, RATIOMETRIC, TO THE EXCITATION VOLTAGE. ALL SPECIFICATIONS WILL NOMINALLY BE CHANGED BY THE RATIO OF V<sub>EXCITATION</sub>/5.0 V<sub>dc</sub>

4 - LIMIT SOLDERING TO 315°C FOR LESS THAN 10 SECONDS

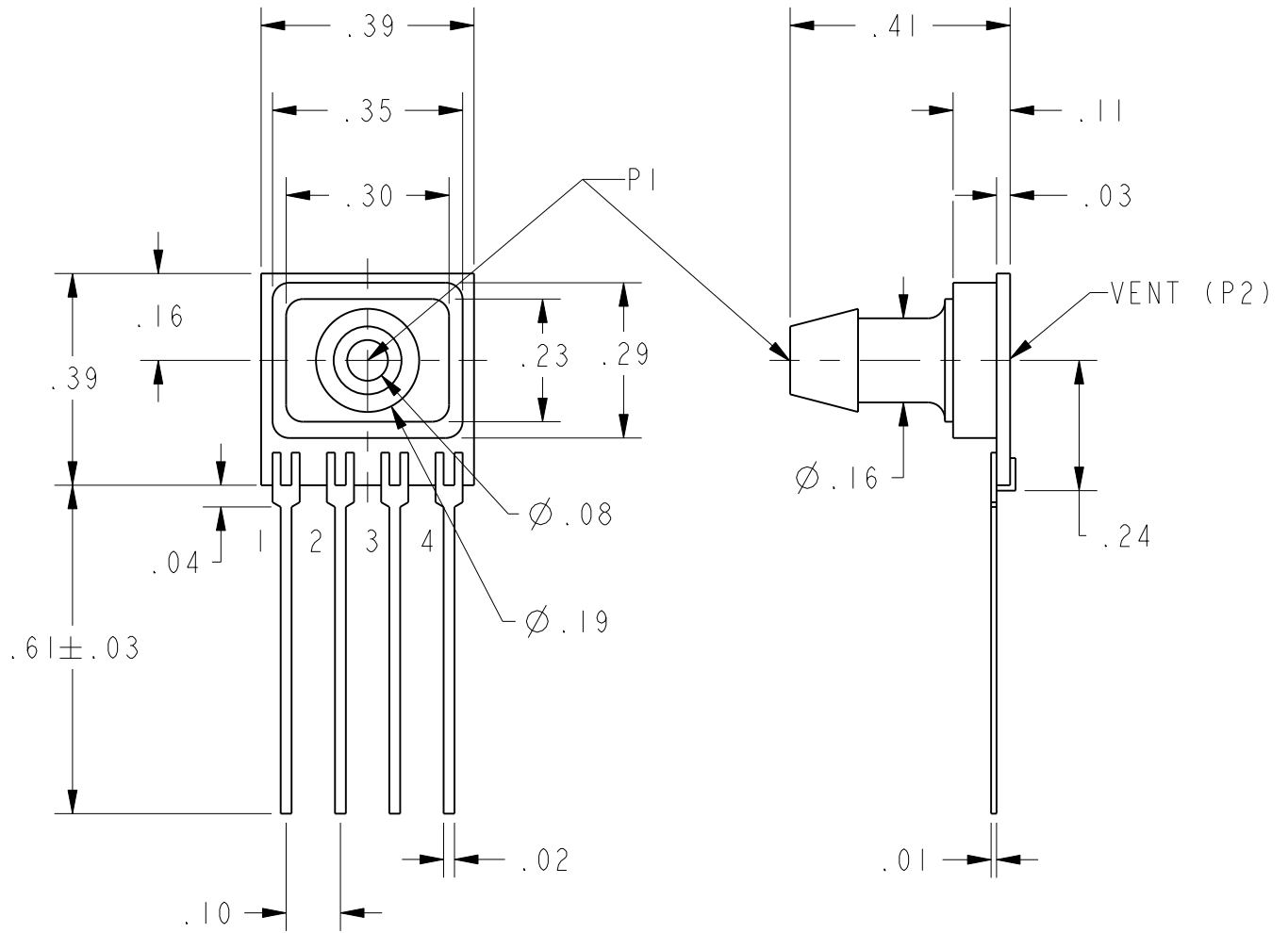
5 - APPLYING PRESSURE TO PORT INDICATED ON THE DRAWINGS SHOWN

6 - SENSORS ARE OPERATIONAL OVER VACUUM PRESSURE RANGE

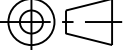
7 - P1 INPUT MEDIA RESTRICTED TO DRY GASES ONLY



G HOUSING



GF HOUSING

|                                                                                                                                                                                                       |  |  |                                                                                                                                                        |     |         |                  |          |                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|------------------|----------|--------------------------------|
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:<br>NO PLACE X ±.040 ±1<br>ONE PLACE .X ±.030 ±0,4<br>TWO PLACE .XX ±.015 ±0,15<br>THREE PLACE .XXX ±.005 ±<br>ANGLES ±<br>RAW MATERIAL-COMMERCIAL STANDARD |  |  | DRAWN                                                                                                                                                  | GRT | 13MAR01 | <b>Honeywell</b> |          |                                |
|                                                                                                                                                                                                       |  |  | CHECK                                                                                                                                                  | SAV | 13MAR01 |                  |          |                                |
| 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            |          |                                |
|                                                                                                                  |  |  | DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED                                                                                        |     |         | SIZE             | DWG TYPE | DRAWING NAME                   |
|                                                                                                                                                                                                       |  |  | 3D PTC                                                                                                                                                 |     |         | <b>C</b>         | <b>I</b> | <b>CPX GAGE SERIES CHART 1</b> |
|                                                                                                                                                                                                       |  |  | ASME Y14.5M-1994                                                                                                                                       |     |         | SCALE            | 3:1      | WEIGHT                         |
|                                                                                                                                                                                                       |  |  |                                                                                                                                                        |     |         | SHEET            | 1        | OF 1                           |

PRESSURE SENSOR

REV 4