

# Precision Gage/Absolute Pressure Transducer

## RANGE CODES

| Pressure range (psi)                           | 1                | 2   | 5    | 10               | 15    | 25    | 50         | 75    | 100   | 150 | 200 | 300 | 500   | 750  | 1000  | 1500 |
|--|------------------|-----|------|------------------|-------|-------|------------|-------|-------|-----|-----|-----|-------|------|-------|------|
| RANGE CODE                                     | AP               | AR  | AT   | AV               | BJ    | BL    | BN         | BP    | BR    | CJ  | CL  | CP  | CR    | CT   | CV    | DJ   |
| D mm [in] psia                                 | 57 [2.25]        |     |      | 38 [1.50]        |       |       |            |       |       |     |     |     |       |      |       |      |
| D mm [in] psig                                 | 57 [2.25]        |     |      | 45 [1.75]        |       |       | 38 [1.50]  |       |       |     |     |     |       |      |       |      |
| L mm [in] psia                                 | 65 [2.54]        |     |      | 60 [2.35]        |       |       |            |       |       |     |     |     |       |      |       |      |
| L* mm [in] psia                                | 96 [3.79]        |     |      | 91 [3.60]        |       |       |            |       |       |     |     |     |       |      |       |      |
| L mm [in] psig                                 | 46 [1.81]        |     |      | 51 [2.00]        |       |       | 51 [2.02]  |       |       |     |     |     |       |      |       |      |
| L* mm [in] psig                                | 78 [3.06]        |     |      | 83 [3.25]        |       |       | 83 [3.27]  |       |       |     |     |     |       |      |       |      |
| Over pressure (test) (psi)                     | 150 % full scale |     |      | 150 % full scale |       |       |            |       |       |     |     |     |       |      |       |      |
| Over pressure (burst) (psi)                    | 50               |     |      | 100              |       | 200   |            | 400   |       | 800 |     | 2 k |       | 3 k  | 3.5 k | 4 k  |
| Port volume cm <sup>3</sup> [in <sup>3</sup> ] | 5,2 [0.32]       |     |      | 4,1 [0.25]       |       |       | 2,8 [0.17] |       |       |     |     |     |       |      |       |      |
| Natural frequency (Hz)                         | 500              | 550 | 1000 | 1.3 k            | 2.1 k | 2.5 k | 2.9 k      | 3.5 k | 4.6 k | 6 k | 7 k | 9 k | 9.5 k | 12 k | 17 k  | 20 k |

| Pressure range (psi)                           | 2000             | 3000 | 5000 | 7500 | 10000 | 15000           | 20000  | 30000  | 50000  | 60000  |
|--|------------------|------|------|------|-------|-----------------|--------|--------|--------|--------|
| RANGE CODE                                     | DL               | DN   | DR   | DT   | DV    | EJ              | EL     | EN     | EP     | ES     |
| D mm [in] psia                                 | 38 [1.50]        |      |      |      |       | 38 [1.50]       |        |        |        |        |
| L mm [in] psia                                 | 48 [1.90]        |      |      |      |       | 56 [2.21]       |        |        |        |        |
| L* mm [in] psia                                | 80 [3.15]        |      |      |      |       | 89 [3.46]       |        |        |        |        |
| Over pressure (test) (psi)                     | 150 % full scale |      |      |      |       | Consult factory |        |        |        |        |
| Over pressure (burst) (psi)                    | 8 k              | 12 k | 20 k | 25 k | 25 k  | 40 k            | 45 k   | 60 k   | 80 k   | 80 k   |
| Port volume cm <sup>3</sup> [in <sup>3</sup> ] | 3,1 [0.12]       |      |      |      |       | 1,5 [0.06]      |        |        |        |        |
| Natural frequency (Hz)                         | 35 k             | 40 k | 54 k | 60 k | 80 k  | 100 k           | >100 k | >100 k | >100 k | >100 k |

\* Length of pressure transducer with amplified option (see option codes)

\*\* 0.5 psi is available for gage only

# Model TJE

## OPTION CODES

|   |  |   |  |
|---|--|---|--|
| <b>Range Code</b>                       | Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see <a href="http://sensing.honeywell.com/TMsensor-ship">http://sensing.honeywell.com/TMsensor-ship</a> for updated listings. |   |  |
| <b>Pressure ranges</b>                  | 1, 2, 5, 10, 15, 25, 50, 75, 100, 150, 200 300, 750, 1500, 2000, 15000, 20000, 30000, 50000, 60000 psig/a<br>500, 1000, 3000, 5000, 7500, 10000 psia<br>500, 1000, 3000, 5000, 7500, 10000 psig  |   |  |
| <b>Temperature compensation</b>         | 1a. 60 °F to 160 °F<br>1b. 30 °F to 130 °F<br>1c. 0 °F to 185 °F<br>1d. -20 °F to 130 °F<br>1e. -20 °F to 200 °F   | 1f. 70 °F to 250 °F <sup>11</sup><br>1g. 70 °F to 325 °F <sup>11</sup><br>1h. 70 °F to 400 °F <sup>11</sup><br>1i. -65 °F to 250 °F <sup>11</sup>   |  |
| <b>Internal amplifiers<sup>10</sup></b> | 2a. 0 Vdc to 5 Vdc (four wire) output <sup>15</sup><br>2c. 0-5 Vdc output <sup>15</sup><br>2j. 4 mA to 20 mA (three wire) output<br>2k. 4 mA to 20 mA (two wire) output <sup>8, 17</sup>   | 2n. 4 mA to 20 mA (two wire) intrinsically safe <sup>8, 17</sup><br>2t. 0 Vdc to 10 Vdc output<br>2u. Unamp., mV/V output   |  |
| <b>Internal amplifier enhancements</b>  | 3a. Input/output isolation <sup>15</sup><br>3d. Remote buffered shunt calibration  |   |  |
| <b>Pressure ports<sup>9</sup></b>       | 5a. 1/4-18 NPT female (3000 psig to 10000 psig)<br>5b. 1/4-18 NPT male (15 psig/a to 10000 psig/a)<br>5c. 7/16-20 UNF female (per MS33649-4)   | 5d. 7/16-20 UNF male<br>5g. G 1/4 male  |  |
| <b>Electrical termination</b>           | 6a. Bendix PTIH-10-6P (or equiv), 6 pin (max 250 °F)<br>6b. MS type connector to mate with MS3106-14S 6S (max 160 °F) <sup>13</sup><br>6e. Integral cable: Teflon (0 °F to 180 °F)<br>6f. Integral cable: PVC (-20 °F to 160 °F)         | 6g. Integral cable: Neoprene (0 °F to 180 °F)<br>6h. Integral cable: Silicone (-65 °F to 300 °F)<br>6i. Integral underwater cable (max 180 °F)<br>6j. 1/2-14 conduit fitting with 5 ft of 4 conductor PVC cable | 6m. DIN 43650<br>6q. Molded integral cable: Polyurethane (max 180 °F)<br>6t. Integral cable with Heyco spring strain relief (5 ft) |
| <b>Shunt calibration</b>                | 8a. Precision internal resistor <sup>11</sup>  |   |  |
| <b>Special calibration<sup>9</sup></b>  | 9a. 10 point (5 up/5 down) 20 % increments @ 70 °F (gage)<br>9b. 20 point (10 up/10 down) 10 % increments @ 70 °F (gage)   |   |  |
| <b>Wetted diaphragm<sup>9</sup></b>     | 10a. 316 stainless steel <sup>9</sup><br>10b. Crucible A-286   | 10c. Hastelloy-C<br>10d. Monel K-500  |  |
| <b>Bridge resistance<sup>9</sup></b>    | 12a. 1000 ohm (foil) (max 400 °F)<br>12b. 5000 ohm (foil) (max 400 °F)   |   |  |
| <b>Zero and span adjustment</b>         | 14a. No access to pots<br>14b. Top access to pots  |   |  |
| <b>Shock and vibration</b>              | 44a. Shock and vibration resistance  |   |  |
| <b>Interfaces</b>                       | 53e. Signature calibration <sup>11</sup><br>53t. TEDS IEEE1451.4 module <sup>16</sup>  |   |  |