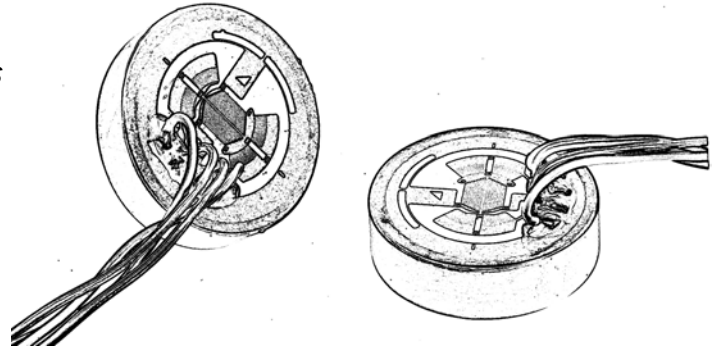


Model PT10

Pressure Diaphragm

- Pressure ranges of 100 to 10,000 psi
- Compact size - 7/8" diameter
- Very accurate with $\pm 0.25\%$ nonlinearity and hysteresis
- 300% burst pressure limit
- 200% safe overrange pressure limit
- Stainless steel construction (500 to 10,000 psi)
- Bonded foil strain gauge design



specifications

| Pressure Range (psi) | 100 | 250 | 500 | 1000 | 3000 | 5000 | 10,000 |
|--|---------------------------------------|-----|-------------------|------------------------|-----------|------------|--------|
| Excitation Output (mV/V) | 10 Recommended, 12 Maximum | | | | | | |
| Rated Output (mV/V) | 2.0 \pm 0.4 | | | | | | |
| Zero Balance (%FS) | 0.04 mV/V | | | | | | |
| Bridge Configuration | Full Bridge | | | | | | |
| Resistance: Input (Ω) | 350 \pm 50 | | | | | | |
| Output (Ω) | 350 \pm 50 | | | | | | |
| Insulation (meg- Ω) | 1000 Min. @ 50VDC | | | | | | |
| Nonlinearity (%FS, best fit st. line method) | ± 0.6 | | ± 0.5 | | | ± 0.25 | |
| Hysteresis (%FS) | ± 0.25 | | | | | | |
| Nonrepeatability (%FS) | 0.1 | | | | | | |
| Creep (%FS/5 min/-40°F to 150°F) | ± 0.6 | | | | ± 0.2 | | |
| Temp. Coef: Output (%FS/°F) | 0.037 \pm 0.002 | | 0.017 \pm 0.004 | | | | |
| Zero (%FS/°F) | ± 0.02 | | | | | | |
| Temp. Range: Storage (°F) | -60 to 200 | | | | | | |
| Operating (°F) | -40 to 150 | | | | | | |
| Wetted Material | 2024-T351 Aluminum | | | 17-4PH Stainless Steel | | | |
| Safe Overage Pressure (% range) | 200 | | | | | | |
| Burst Pressure (% range) | 300 Minimum | | | | | | |
| Fatigue Life | >1,000,000 Cycles Unidirectional | | | | | | |
| Calculated Resonance Frequency | >25kHz at Atmospheric Pressure in Air | | | | | | |
| Reference Temperature (°F) | 70 | | | | | | |

NOTE: Specifications subject to change. Request certified drawings prior to designing mountings or fixtures.



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