# GP:50 Aerospace Division

## *Removable and Replaceable Diaphragm & Cap*
## *COTS/MOTS* *MODEL 7600*



### Features:

- Removable Pressure Cap for fully cleanable cavity
- Stainless Steel Housing + Pressure Cavity
- Cavity Material Options for Special Envionments
- RTD Temperature or Shunt Output Option
- Low and High Level Outputs, Isolated/Non Isolated
- Isolation Diaphragm (optional), Isolation Tube
- (Mechanical), Stops for Over-Load Protection 10X
- Digital Communication Available

**For:**

- High Accuracy, Rugged Field Test Applications
- Including: ***Fuels, Propellants, Paints, etc.***
- X100 Proof Pressure @ 1PSI Thru 10 PSI Proof

The Model 7600 Aerospace Replaceable Cap unit is designed for the tough challenges and environmental rigors of Space Propulsion and Aviation pressure testing applications. We went to "The Aerospace Engineer", and asked the "who, what, where, why and how" are "your" application requirements for a pressure sensor. The 7600 fills your testing needs by providing:

1. High Accuracy, High Repeatability
2. Cleanable Pressure Cavity
3. Optional Temperature Compensation ranges
4. Stainless Steel case and construction with optional material wetted parts for Hydrogen and LOX compatibility.
5. Temperature (RTD) outputs with pre ssure analog output.
6. RS 485, I²C Options

All Aerospace pressure transducers are manufactured and tested to the following Mil-STD and Mil-spec standards to insure the highest quality assurance:

- NIST Traceability and Calibration.....MIL-STD-45662A
- Workmanship.....MIL-STD-2000A, MIL-S 45743E
- Quality System.....MIL-Q-9858A, MIL-I 45208A

**Qualified to:** MIL-STD-810C&E, MIL-STD-461/462 D&E

Our corporate edict is "WHATEVER IT TAKES". The model 7600 does just that, and will meet your toughest aerospace application challenge.

**GP:50 is pursuing ISO 9000/9001 compliance and certifications**

# Specifications

The following specifications are the standards for normal construction. Options are available for application specific requirements and deviations. Traceability, customer ATP, additional testing and construction options are available. Contact your local representative or factory for assistance.

| Parameters | LOW LEVEL | HIGH LEVEL |
|---|---|---|
| Ranges | 1 - 20,000 PSI, PSIA, PSIG Options | |
| FS Output at Rated Pressure: * Meets MIL-STD-461/462 EMI/RFI | 3 mV/V @ 10 Vdc | 0-5 Vdc Isolated or non-isolated 4-20 DCMa |
| Proof Pressure | Under 5K - 2 X with 300 Min, Over 5K - 1.5X | |
| Burst Pressure * 4500 Containment | Under 5K - 3 X, Over 5K - 2X | |
| Excitation or Input Voltage * Reverse Polarity Protected | +10 - +15 Vdc Regulated | 10, +12 Vdc Unregulated +18 - +36 Vdc |
| Non-Repeatability Measurement | <0.1% FSO | |
| Static Accuracy* BFSL | <0.08%FSO BFSL | |
| Error Band (all 5 parameters) | <1.0% FSO (RSS) | |
| Pressure Medium * (Wetted Materials) | 316SS, A286, 386 15-5 CRES Options, Hastelloy Inconnel | |
| Temperature Compensation * | -30°F to +170°F, -65° F to +255° F | |
| Operating/Environmental Temp | -100° F to +300° F, Cryo + Hi-temp Options | |
| Weight | 23 oz. (approx.) | |
| Pressure Port * | MS 33649 (F) / Above 10K: F-250-C Autoclave (F) | |
| Electrical Connector * | PTIH-10-6P | |
| Response Time | Under 4 msec | |

* OPTIONS AVAILABLE

# Ordering Guide:

**7600 -** | **Output** | **Range** | **Pressure Type** | **Options** |
|---|---|---|---|
| 2 | RH | A | CS / FD / GH |

**Output**

1 - 2mV/V
2 - 0-5 Vdc
3 - 4-20 dcmA
4 - 0-5 Vdc (Isolated)
5 - 0-10 Vdc (Isolated)
7 - 3 mV/V
10 - Digital Output

**Range**

PJ - 5
PN - 10
PP - 15
PR - 20
PO - 25
PV - 50
PZ - 100
RB - 150
RD - 200
RF - 300
RH - 500
RM - 1000
RO - 1500
RR - 2000
RT - 3000
RV - 5000
RX - 7500
RZ - 10000
SB - 15000
SD - 20000
SZ - Non Standard Pressure Ranges

**Type**

A - Absolute, ref to vacuum
S - Sealed
G - Sealed, ref to 14.7 PSI

## Options

***Connectors:***

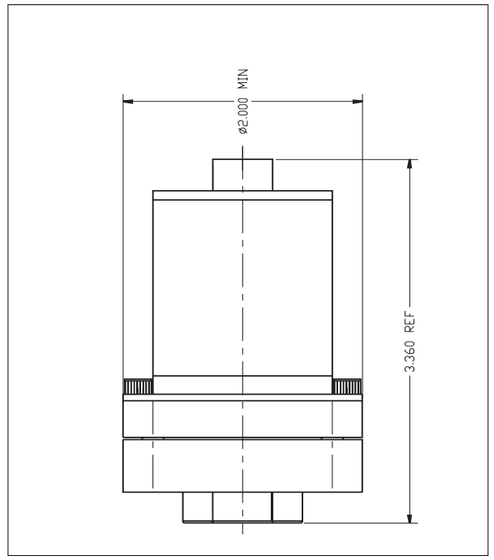
CA - PTIH-10-6P Bendix
CI - D38999/27YB98PN

***Ports:***

FA - MS33649-4, 7/16-20 (F)
FD - MS33656-4, 7/16-20 (M) (Made with an adapter)

***Misc:***

GH - 100% Internal Shunt
ME - Shunt Cal, 80% Internal
- Customer Special Available
- Clean for LOX, LH Available




**CONTACT FACTORY FOR COMPLETE OPTIONS**

***GP:50***

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