GP:50 Aerospace Division

Digital Output Transducer
MODEL 8000



Features:

- Multi Drop Capable
- Dual Sensor, Dual Channels Optional
- 0.1% Total Error Band
- ASIC Digitally Corrected for Temperature
- -100 to +300 Deg F CTR
- RS485 / 422 Digital Communication
- “Smart Command Structure”
- Network Compatible up to 99 units
- Port Speeds up to 57.6K bps

For:

- Health Management Systems
- Industrial Fuels Management
- Spacecraft

The Model 8000 Aerospace Flight Differential pressure transducer 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 “who, what, where, why and how” are “your” application requirements for a pressure sensor. The 8000 fills your testing needs by providing:

1. High Accuracy, High Repeatability
2. Optional Temperature Compensation ranges
3. Optional wetted parts for H and LOX Environments
4. Temperature (RTD) outputs with pressure analog output.
5. 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 8000 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

Ranges	15 - 15000 PSI
FS Output at rated pressure: *	I^2C, Rs 485, RS422
Proof Pressure	1.5 X or 300 PSI Min
Burst Pressure	2.0 X
Excitation or Input Voltage *	10 - 36 Vdc Regulated
Zero and Span Adjustment	Digital Microprocessor Controlled
Static Error Band (Linerarity, Hysteresis, and Non Repeatabliity)	.05% FSO Error Band 07% FSO
Pressure Medium * (Wetted Materials)	316 SS / 15.5 CRES (Inconel)
Temperature Compensation *	-100F - +250F
Operating/Environmental Temp	-100F - +300F
Weight	10 Oz.
Pressure Port *	MS 33656-4 (M)
Dual Redundancy	Yes, Optional
Resolution	1 Part in 143,000
Repeatability	+-0.005%FSO
Warm-Up	2 Hours to Rated Accuracy
Data Transmission Distance	1000 Ft (Max)
Media Compatability	Gas, Vapor, or Liquid Compatible with 316, 15-5*
Baud Rate	User Selectable 300 and 600 BPS
Network Size, Multi Deep	99 Addressable Transducers Max

* OPTIONS AVAILABLE

Ordering Guide:

8000 -

Output	Range	Pressure Type	Options
2	RH	A	CS / FD / GH

Output

9 - I^2C
8 - RS485
10 - RS422

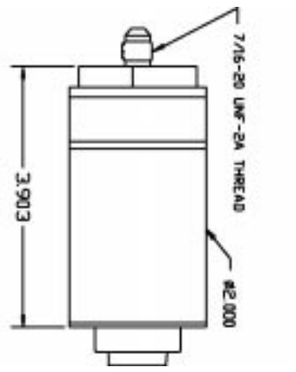
Range

PP - 15 RK - 750
PR - 20 RM - 1000
PO - 25 RO - 1500
PV - 50 RR - 2000
PZ - 100 RT - 3000
RB - 150 RV - 5000
RD - 200 RX - 7500
RF - 300 RZ - 10000
RH - 500 SB -15000

Type

G - Gage
A - Absolute

Contact Factory for Complete Options



Options

Connectors:

CA - PTIH-10-6P Bendix
DB - D38999/27YA35PN
CI - D38999/27YB98PN

Ports:

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

Misc:

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

INTERTECHNOLOGY INC.
1-800-465-1600

1 Scarsdale Road,
Don Mills, Ontario, M3B 2R2
Tel: 416-445-5500
Fax: 416-445-1170

E-Mail: sales@intertechnology.ca