

GP:50 Aerospace Division

Analog Output Temperature Transducer - MODEL 7800

Dual Temperature & Pressure Transducer - MODEL 7880



Features:

- -100 to +400° F Standard Medium
- Custom Length Probe
- Cryogenic to -420 Deg F Optional
- 8 Ounces Weight
- Digital I²C, RS 485 Output Options
- Extremely Rugged, Harsh Environment Capability
- High Shock (4000 G's), High Vibration (100G's Pk/Pk)

Heritage Includes:

- NASA
- Lockheed Martin
- EELV
- Johns Hopkins
- Shuttle Upgrade
- Boeing
- TRW-ABL
- Arkin Industries
- United Defense

For:

- High Vibration Environments
- 100 G's, 4000 G Shock Qualified
- Extreme or Harsh Environments
- Manifolds, Propulsion Systems
- Military and Defense Qualified

The Model 7800 Temperature Transducer is designed for the tough challenges and environmental rigors of Space Propulsion and Aviation temperature testing applications. We went to "The Aerospace Engineer", and asked the "who, what, where, why and how" are "your" application requirements for a temperature sensor. The 7800 fills your testing needs by providing:

1. High Accuracy, 0.1% Deg
2. Custom Probe Length
3. 4-20 DCMA Options
4. Harsh Environment Capability for Shock & Vibration
5. Hydrogen and LOX compatibility.
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 7800 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	Model 7800 (Temp. only)	Model 7880 (Dual Temp & Press)
Ranges	-100° F to +320° F Medium Temperature	5 thru 15,000 - PSIA,PSIG,PSIS Options
(FS Output at Rated Pressure: * Meets MIL-STD-461/462 EMI/RFI)		0-5VDC Isolated / 4-20dcmA
Excitation or Input Voltage * Reverse Polarity Protected		+18-36VDC / 9-36VDC Unregulated
Non-Repeatability	<.1% FSO	<0.1% FSO
Static Accuracy* - ° F	0.1 Deg	<0.07 FSO RSS, 0.04% with Digital Correction
Pressure Medium * (Wetted Materials)	316SS, 15-5 CRES options, including Inconel Hastelloy	
Temperature Options	-65F to +250F, Probe Qualified	
Operating/Environmental Temp	-120F - 350F	-100F - +300F, 320F Option
Weight	8 ounces	
Electrical Connector	PTIH-10-6P	PTIH-10-6P
Response Time	Under 4 msec	

* OPTIONS AVAILABLE

Ordering Guide:

7800 -	Output Range	Pressure Type	Options
	2	A	CS / FD / GH

Output

- 2 - 0-5 Vdc
- 3 - 4-20 dcmA
- 4 - 0-5 Vdc
(Isolated)
- 5 - 0-10 Vdc

Options

- Connectors:**
 CA - PTIH-10-6P Bendix
 CI - D38999/27YB98PN
 DB - D38999/27YA35PN
- Ports:**
 FD - MS33656-4,
 7/16-20 (M)

Ordering Guide:

7880 -	Output Range	Pressure Type	Options
	2 RH	A	CS / FD / GH

Output

- 2 - 0-5 Vdc
 - 3 - 4-20 dcmA
 - 4 - 0-5 Vdc
(Isolated)
 - 5 - 0-10 Vdc
 - 10 - Digital
- Outputs:
Specify

Range

- PJ - 5*
- PN - 10*
- PP - 15
- PO - 25
- PV - 50
- PZ - 100
- RB - 150
- RD - 200
- RF - 300
- RH - 500
- RK - 750
- RM - 1000
- RO - 1500
- RR - 2000
- RT - 3000
- RV - 5000
- RX - 7500
- RZ - 10000
- SB - 15000
- SZ - Non Standard Pressure Ranges

Options

Connectors:

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

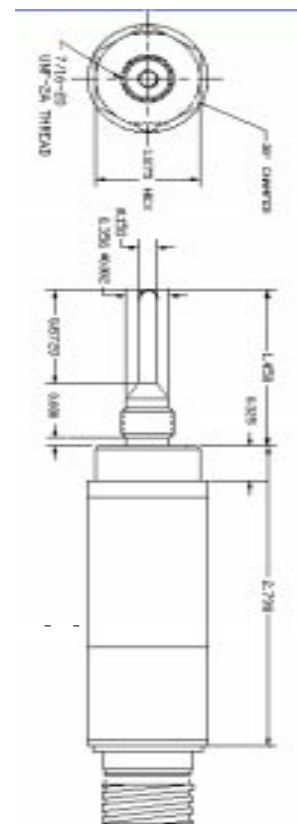
Ports:

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

*Can Dia.1.5"

Misc:

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



CONTACT FACTORY FOR COMPLETE OPTIONS

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