



CRYOGENIC TEMPERATURE TRANSDUCER

Model 7710

Designed for the tough challenges and environmental rigors of space propulsion and aviation pressure testing.

FEATURES:

- -320°F to +70°F standard medium
- High accuracy, 3% FSO standard (1% available)
- Lightweight, 8 ounces
- Hydrogen and LOX compatibility
- Custom probe lengths, 1.55" standard
- Designed to meet vibration and shock per MIL-STD-810
- 2 second time response, 0.5 sec optional
- 100 ohm platinum RTD standard

Typical Applications:

- High Vibration Environments
- Extreme or Harsh Environments
- Manifolds, Propulsion Systems
- Military and Defense Applications

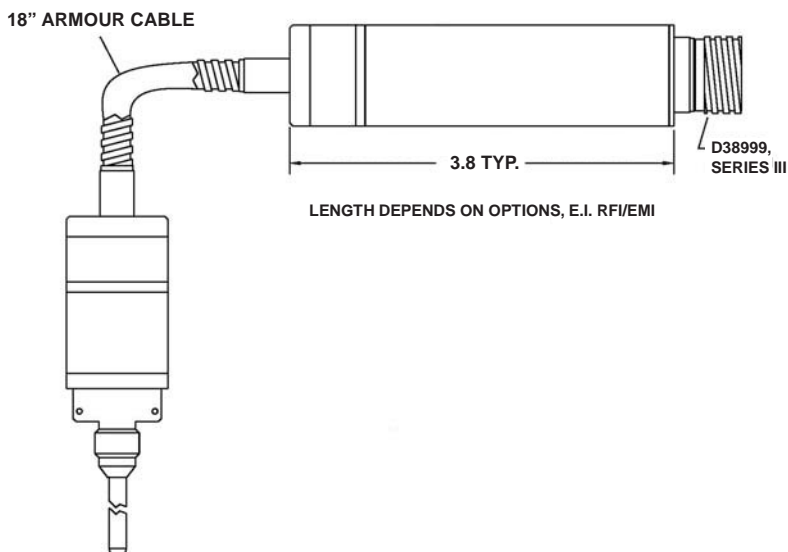


All GP:50 Aerospace pressure transducers are manufactured and tested to the following MILSTD and MIL-Spec standards to insure the highest quality assurance:

- NIST Traceability and Calibration..... MIL-STD-45662A
- Workmanship J-001 / NASA 8739.3 standards
- Quality System ISO 9001:2008

Designed to: MIL-STD-810 C&E
MIL-STD-461/462 D&E

Units are in inches



WIRING CODE

	4-20 mA PIN OUT	Vdc PIN OUT
A	+ EXC./SIGNAL OUT	+ EXC.
B	NC	+SIGNAL OUT
C	NC	-SIGNAL OUT
D	- EXC./SIGNAL OUT	- EXC.
E	SHUNT OPTION	SHUNT OPTION
F	SHUNT OPTION	SHUNT OPTION

A5SL-7710.00



Pressure, Level & Temperature Transmitters & Transducers

U.K. Distributor; Interface Force Measurements

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Specifications and options reflect standard product, other improved performance / mechanical / electrical / options available, consult factory for more information. Modifications may alter specs.

Ranges	-320°F to +70°F / -200°C to +20°C
FS Output	3 mV/V at 10 Vdc / 0-5 Vdc / 4-20 dcmA Isolated options
Temperature Sensor	100 ohm 2 wire platinum RTD standard, 1000 ohm 2 wire platinum RTD optional
Excitation or Input Voltage Reverse Polarity Protected	18 to 36 Vdc
Static Accuracy	3% FSO at 1% optional
Weight	8 oz. (approx.)
Electrical Connector	MIL PTIH-10-6P, D38999 series III optional
Response Time	2 seconds, 0.5 sec optional
Meets MIL-STD-461/462 EMI/RFI	Some options will affect EMI/RFI
Flex Tubing	18" Armored Capillary Tube
System Pressure	Designed for up to 2000 psi system pressure. Higher system pressure designs available, contact factory.

ORDERING GUIDE:

Some options will affect dimensions, consult factory if important.
Use the following codes to identify desired item.

MODEL	OUTPUT	OPTIONS
●	— ●	— ●

Example: 7710-2-CA/FD/GH

OUTPUT

- 2** 0-5 Vdc 4 wire hookup
- 3** 4-20 dcmA
- 4** 0-5 Vdc Isolated
- 5** 0-10 Vdc 4 wire hookup
- 6** 0-10 Vdc Isolated
- 9** 0-5 Vdc 3 wire hookup
- 10** 0-10 Vdc 3 wire hookup

OPTIONS

CONNECTORS

- CA** PTIH-10-6P Bendix
- CI** D38999/27YB98N
- DB** D38999/27YA35PN

PORTS

- FD** MS33656-4, 7/16-20 (M)

MISC:

- D** Improved Static Accuracy to 1%
- GB** Alternate Full Scale Outputs
- GH** 100% Internal Shunt
- GL** Cleaning for oxygen service
- JB** 1000 ohm 2 wire RTD
- ME** Shunt cal, 80% Internal
- QV** Improved response time to 0.5 seconds

FLEX TUBING:

- GT** 30" Armored Capillary Tube
- HS** 9" Armored Capillary Tube
- HV** 24" Armored Capillary Tube
- HY** 12" Armored Capillary Tube
- MT** Non-standard Armored Capillary Tube (50" max)