

Model 2-20

BEI Edcliff Instruments Division

Low Range Potentiometric Pressure Transducer

The Model 2-20 is designed for use in a broad variety of applications where accurate, reliable, low-pressure measurement is required.

The 2-20 Pressure Transducer utilizes a Ni-Span-C corrugated capsule to drive a lever arm wiper across a precisely wound resistance element creating a voltage divider that can provide an electrical output directly proportional to the pressure applied.

The 2-20 is designed to survive and operate in aviation, spacecraft and industrial environments of high shock, vibration, rough handling, and hostile fluids.

The 2-20 is a rugged, highly mature pressure transducer that is currently in service in a variety of business, commuter, and pleasure aircraft, and commercial research spacecraft as well as automated assembly control systems, water filtration and treatment systems.

The 2-20 has also served as the basis for a variety of unique custom configurations requiring special mounting and installation, electrical connection, and pressure fittings. Please contact the factory for any unique applications.



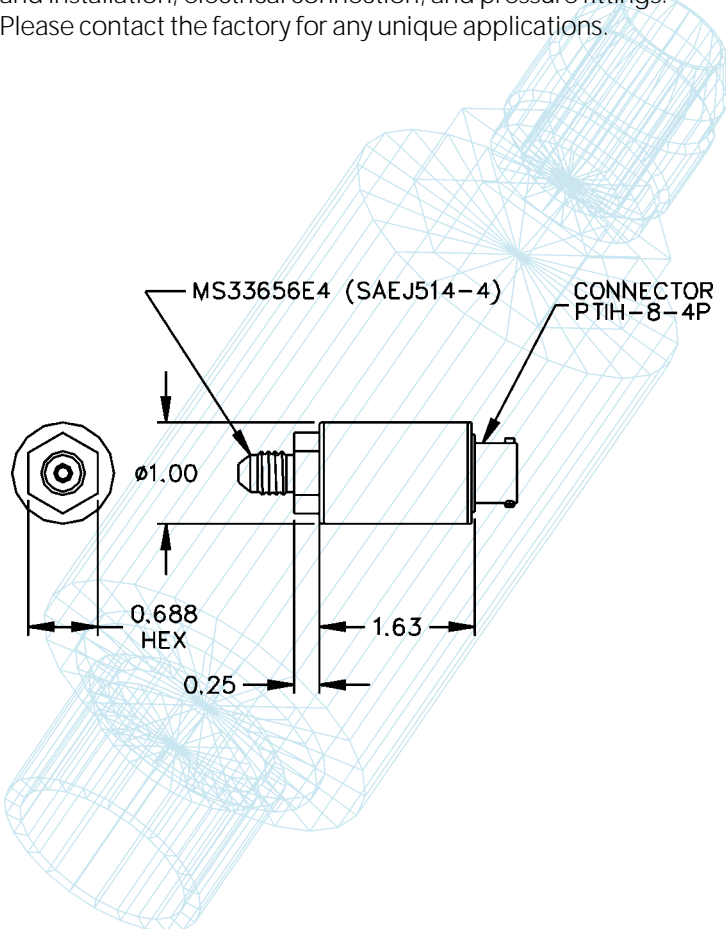
Unique products

Applications

- Aviation & Marine Fuel Systems
- Pneumatic Control Systems
- Hydraulic Control Systems

Features

- Operates At +150°C
- Exceptional Long-Term Stability
- Small Size (1.0" outside diameter x 1.88 LG.)



Contact factory or local sales representative for outline drawings of the various configurations and the electrical pinouts.



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Product Specifications

IAW ANSI/ASA S37.1-75

PERFORMANCE

OUTPUT SIGNAL	Voltage Ratio
ZERO & SPAN OFFSET	3.0% FSO
ACCURACY L,H & R	±3.0% FSO (BFSL)
LONG-TERM STABILITY	±1.5% FSO/Year
COMPENSATED TEMPERATURE	-55° TO +150°C (-65° TO +300°F)
RESISTANCE	5000 Ohms standard. Other resistances are also available. Contact factory for information

OPERATING

INPUT POWER	10 VDC, Nom.
INSULATION RESISTANCE	50 MEGOHMS @ 100 VDC
DIELECTRIC STRENGTH	500 VAC, 50-60 Hz, 5 mA MAX, 1 MIN.
PROOF PRESSURE	150% of Rated Range
BURST PRESSURE	200% of Rated Range or 2,000 PSI
WEIGHT	< 0.25 Kilos (0.5 lbs)

ENVIRONMENTAL

MAXIMUM OPERATING TEMPERATURE	-55° to +150°C (-65° to +300°F)
WETTED PARTS	316 Cres
ENCLOSURE	NEMA 4 & 4X
VIBRATION	15 gs 10-2000 Hz
SHOCK	100 gs for 11 Milliseconds, Half-sine

CERTIFICATIONS

Ordering Information

2 - 2 X X- XX X X- XX

INSTRUMENT FAMILY
2 = Potentiometric

SENSOR TYPE
2 = Capsule-Driven

REFERENCE PRESSURE
0 = Absolute
1 = Vented Gage

RESISTANCE
0 = 5000 OHMS
1 = 2000 OHMS
2 = 7500 OHMS

PRESSURE RANGES

1 = 15 PSI	6 = 150 PSI
2 = 25 PSI	7 = 250 PSI
3 = 50 PSI	8 = 300 PSI
4 = 75 PSI	9 = 350 PSI
5 = 100 PSI	10 = 60 PSI

PRESSURE FITTINGS
0 = MS33656E4
1 = MS33649-04
2 = 1/8NPT, Male
3 = MS33656E6

ELECTRICAL CONNECTIONS
0 = PT1H-8-4P
1 = 3-Wire Pigtails
2 = J-Hooks
3 = 3-Wire Shielded Cable
4 = DIN43650 Form C

CUSTOM CONFIGURATIONS
00 = No Custom Requirements



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