

DIGITALLY CORRECTED SUBMERSIBLE PRESSURE TRANSDUCER

Model 8500



Heritage Includes:

- Perry Tritech
- GD Electric Boat
- Oceanengineering

Designed for the tough challenges and environmental rigors of oilfield, downhole, and deep sea ocean applications.

- Depth / Level Sensing
- Seawater Submersible, DSRV's and ROV's
- Oil Platform and Downhole Applications
- Ocean Pump Stations

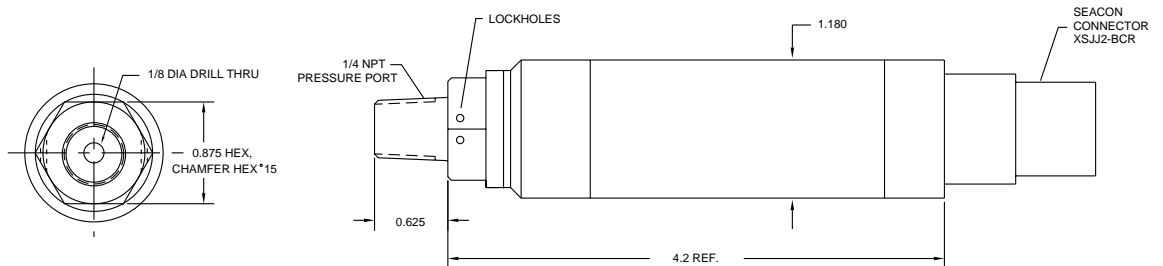
FEATURES:

- Submersible to 22,000 feet seawater (options may affect operating depth)
- Optional reference standards, PSIA, PSIS, PSIG, PSID
- 0-5 Vdc Isolated or 0-10 Vdc Isolated digitally corrected output
- Cavity material options for special environments
- High accuracy, 0.08% RSS standard (0.05% RSS available)
- Designed for over 1,000,000 continuous cycles
- Serial port (RS-232) controlled zero and span adjustment

All GP:50 Aerospace differential 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 J-001 / NASA 8739.3 standards
- Quality System ISO 9001:2000

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



Units are in inches. See reverse side for specifications and ordering guide.

SPECIFICATIONS

These specifications are the standards to which the units are normally constructed. Alterations may be easily and readily accomplished by the standard modification code or by discussion with the factory. Traceability, customer ATP, additional testing and construction options are available. We invite your inquiry.

Ranges	15 thru 20,000 PSIA, PSIG, PSISG options
FS Output at Rated Pressure	0-5 Vdc Isolated or 0-10 Vdc Isolated Digitally corrected output
Excitation or Input Voltage	+10 thru +15 Vdc nonisolated, +18 thru +36 Vdc isolated
Reverse Polarity Protected	
Non-Repeatability	< 0.04% FSO
Non-Linearity	< 0.05% FSO
Hysteresis	< 0.05% FSO
Static Accuracy RSS	< 0.08% FSO RSS, 0.05% optional
Wetted Materials	316SS (Inconel, Hastelloy, Monel optional)
Temperature Compensation	-10°F to +180°F / -20°C to +80°C, expanded range optional
Operating/Environmental Temperature	-20°F to +190°F / -30°C to +90°C,
Weight	8 oz. (some options may affect weight)
Pressure Port	SAE 4 (M), options available
Electrical Connector	SEACON XSEE-6-BCR 6 pin connector
Shunt Cal 80% optional	Internal
Response Time	Under 4 ms
Meets MIL-STD-461/462 EMI/RFI	Some options will affect EMI/RFI rating

ORDERING GUIDE:

Some options will affect dimensions, consult factory if important.

Use the following codes to identify desired item.

MODEL	OUTPUT	RANGE	PRESSURE TYPE	OPTIONS
•	—	•	—	•

Example: 8500-4-RH-A-DF/FJ

OUTPUT

- 4 0-5 Vdc Isolated
- 6 0-10 Vdc Isolated

RANGE (PSI)

- | | |
|----------|--|
| PP 0-15 | RK 0-750 |
| PR 0-20 | RM 0-1000 |
| PO 0-25 | RO 0-1500 |
| PT 0-30 | RR 0-2000 |
| PV 0-50 | RT 0-3000 |
| PZ 0-100 | RV 0-5000 |
| RB 0-150 | RX 0-7500 |
| RD 0-200 | RZ 0-10,000 |
| RF 0-300 | SB 0-15,000 |
| RH 0-500 | Contact factory
for non-standard
pressure ranges |

PRESSURE TYPE

- A Absolute, ref to vacuum
- G Gage, ref to atmosphere
- SG Sealed Gage, ref to 14.7 psia

OPTIONS

CONNECTORS:

- DF XSEE-6-BCR (standard)
- DG XSJJ-7-BCR

PORTS:

- FA MS33649-4, 7/16-20 (F)
- FD MS33656-4, 7/16-20 (M)
(made with an adapter)
- FJ 1/4" NPT

MISC:

- D Improved Static Accuracy to 0.05%
- GB Alternate Full Scale Outputs
- GF Expanded Temperature Range, -65 to +250°F
(Compensated to ± 2% FSO/100°F)
- GH 100% Internal Shunt
- GK Inconel Pressure Cavity
- GL Cleaning for oxygen service
- GP Hastelloy Pressure Cavity
- ME Shunt Cal, 80% Internal
- MS Bi-Directional
- QU Monel Pressure Cavity

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.