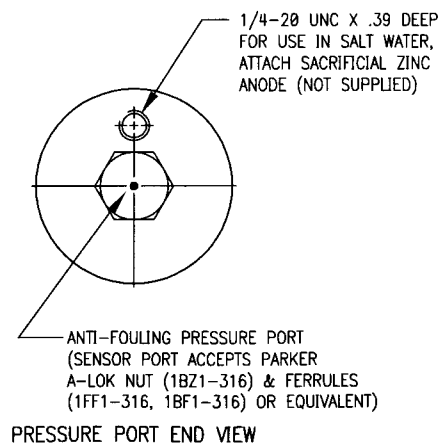
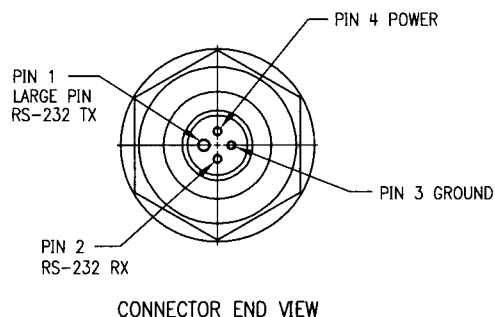
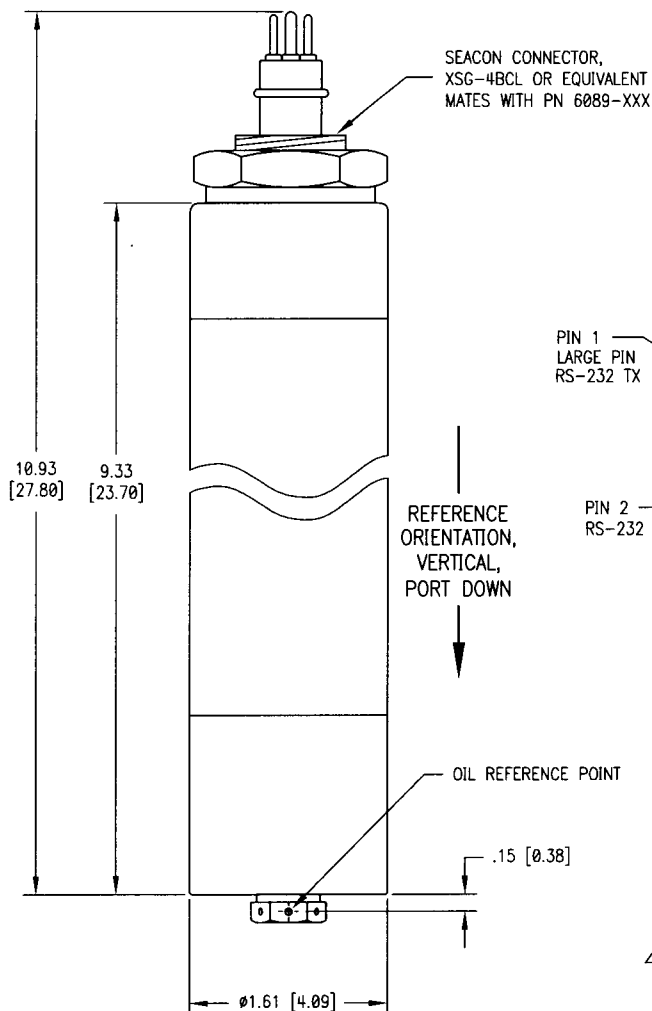


SPECIFICATION CONTROL DRAWING

CAUTION

DELICATE INSTRUMENT.
HANDLE WITH CARE. DO NOT TRANSMIT
SHOCK OR EXCESSIVE VIBRATION TO
PRESSURE PORT OR DEPTH SENSOR BODY.
PERMANENT DAMAGE MAY RESULT.



MODEL NO.	PART NO.	DEPTH RANGE	PRESSURE RANGE
8B1400-I	1281-001-0	0 TO 1400 METERS	0 TO 2000 PSIA (13.79 MPa)
8B2000-I	1282-001-0	0 TO 2000 METERS	0 TO 3000 PSIA (20.68 MPa)
8B4000-I	1283-001-0	0 TO 4000 METERS	0 TO 6000 PSIA (41.40 MPa)

PERFORMANCE

REPEATABILITY	≤ ±0.01% FULL SCALE
HYSTERESIS	≤ ±0.01% FULL SCALE
ACCELERATION SENSITIVITY (THREE AXIS AVERAGE)	≤ ±0.008% FULL SCALE/G
SUPPLY VOLTAGE SENSITIVITY	LESS THAN 0.001% FULL SCALE/V (+6 TO +16 VDC)
CALIBRATED TEMPERATURE RANGE	-2 °C TO +40 °C (28 °F TO 104 °F)
STORAGE TEMPERATURE RANGE	-25 °C TO +65 °C (-13 °F TO 149 °F)

CHARACTERISTICS

NOMINAL TEMP SENSOR SENSITIVITY	45 PPM/°C
WEIGHT	3.13 LB (1.42 KG) MAX
RECOMMENDED INPUT VOLTAGE	+6 VDC
OPERATES FROM	+6 VDC MIN TO +16 VDC MAX
TYPICAL AVERAGE SUPPLY CURRENT:	7 mA IN SLEEP MODE 12 mA QUIESCENT 16 mA MAX

ENVIRONMENTAL

OVERPRESSURE 1.2 X FULL SCALE W/O CHANGE IN CALIBRATION
THE TRANSDUCER BOURDON ELEMENT AND INTERNAL TUBING ARE OIL FILLED UNDER VACUUM WITH DOW-CORNING FS1265 FLUID (AT 25 °C, SPECIFIC GRAVITY IS 1.25, AND VISCOSITY IS 300 CENTISTOKES).
CAUTION: DO NOT APPLY VACUUM OR GAS TO PRESSURE PORT. FLUID CAN BE WITHDRAWN ALLOWING THE PRESSURE MEDIUM TO COME INTO CONTACT WITH THE SENSING ELEMENTS.

NOTES

- HOUSING MATERIAL: 316L STAINLESS STEEL.
- CAUTION: IF RE-TORQUING ELECTRICAL CONNECTOR, DO NOT EXCEED 85 IN-LB (9.6 N-m).
- OIL FILLED UNITS WILL GENERATE A PRESSURE HEAD THAT VARIES WITH ORIENTATION.
- RS-232 SIGNAL LEVELS ARE ±4 VDC NOMINAL. MAXIMUM CABLE LENGTH DEPENDS ON CABLE TYPE, BAUD RATE, AND ELECTRICAL NOISE LEVELS.
- THE FOLLOWING ARE CHARACTERISTICS OF FIRMWARE VERSION R3.00 OR LATER:
ALL COMMANDS MUST BE TERMINATED BY A CARRIAGE RETURN OR LINEFEED CHARACTER.
SERIAL PROTOCOL IS FIXED AT 8/N/1. PT PARAMETER IS READ-ONLY, AND ALWAYS RETURNS "N"
MC AND CT DIAGNOSTIC COMMANDS ARE NOT SUPPORTED.
SN AND TC PARAMETERS ARE READ-ONLY.
- REFER TO OPERATION MANUAL (DOC. #8107-001) FOR COMMANDS AND CONFIGURATION INSTRUCTIONS.
- ELECTRICAL ISOLATION: > 100 MEGOHMS AT 500 VDC; < 50 UA AT 500 VAC.

CURRENT APPROVALS				 Paroscientific, Inc. 4500 148th Avenue NE Redmond, WA 98052 Tel 425.883.8700 Fax 425.867.5407 website www.paroscientific.com	DESCRIPTION		DIGIQUARTZ® INTELLIGENT DEPTH SENSOR, ELECTRICALLY ISOLATED, 8B WITH RS-232	
NAME	DATE	NAME	DATE		SIZE	CAGE	DOCUMENT NUMBER	REV
☒ CAD R.M. Collado	2/06/07	☒ MFG C. Delba	2/6/07	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DIMENSIONS IN BRACKETS ARE IN CENTIMETERS	A	54535	7502-001	L
☐ CHK J. Luxon	2/16/07	☐ QA A. Delba	2/16/07					
☐ ENG J. Luxon	2/16/07	☐ MKT J. Delba	2-6-07					
EO NO/EFFECTIVE DATE: EO's 1600, 6963				ACAD FILENAME: 7502-001 L	SCALE	NONE	SHEET	1 OF 1