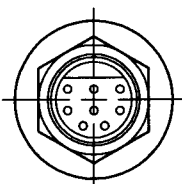
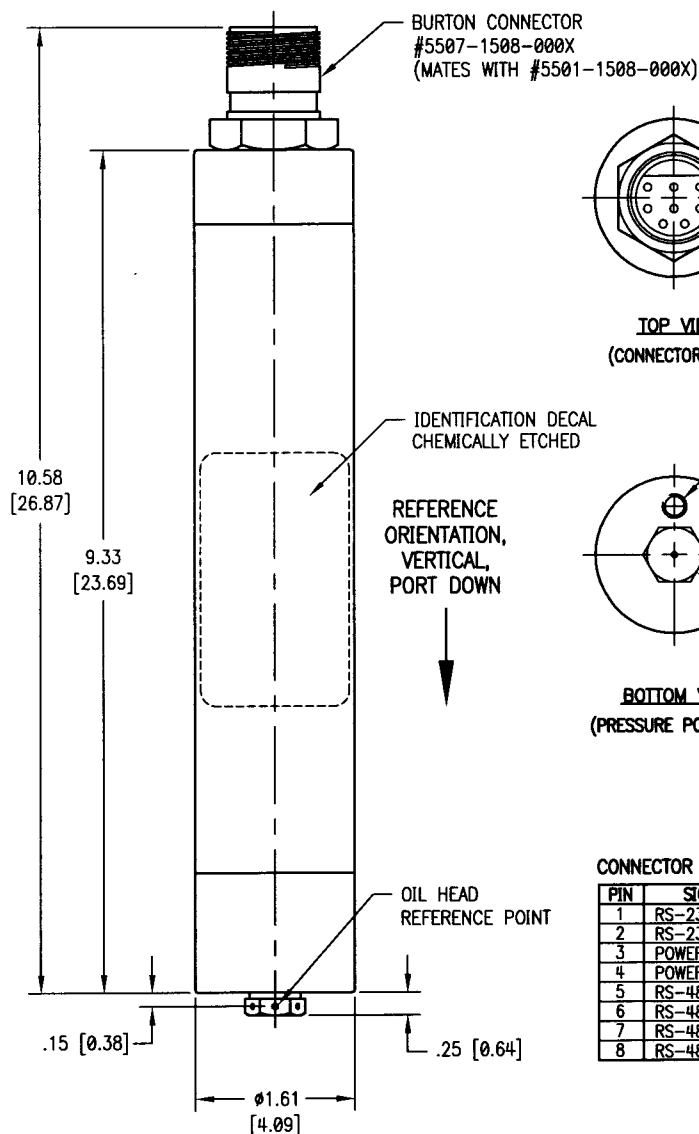


SPECIFICATION CONTROL DRAWING

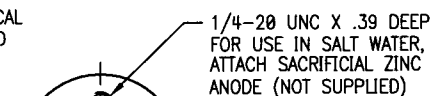
CAUTION

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

MODEL NO.	PART NUMBER	DEPTH RANGE (METERS)	PRESSURE RANGE
8CB1400-I-005	1753-001-0	0 TO 1400	0 TO 2000 PSIA (13.79 MPa)
8CB2000-I-005	1753-002-0	0 TO 2000	0 TO 3000 PSIA (20.68 MPa)
8CB4000-I-005	1753-003-0	0 TO 4000	0 TO 6000 PSIA (41.40 MPa)



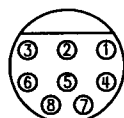
TOP VIEW
(CONNECTOR END)



BOTTOM VIEW
(PRESSURE PORT END)

CONNECTOR PIN-OUT

PIN	SIGNAL
1	RS-232 TX
2	RS-232 RX
3	POWER/SIGNAL GND
4	POWER
5	RS-485 RX+
6	RS-485 RX-
7	RS-485 TX+
8	RS-485 TX-



PERFORMANCE

REPEATABILITY	≤ ±0.005% FULL SCALE
HYSTERESIS	≤ ±0.005% 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	3.29 LB (1.49 KG) MAX
RECOMMENDED INPUT VOLTAGE	+6 VDC
OPERATES FROM	+6 VDC MIN TO +16 VDC MAX
TYPICAL AVERAGE SUPPLY CURRENT:	3 mA IN SLEEP MODE 17 mA QUIESCENT 38 mA MAX

ENVIRONMENTAL

OVERPRESSURE 1.2 X F.S. WITH NO CHANGE IN CALIBRATION
THE TRANSDUCER BOURDON ELEMENT AND INTERNAL TUBING ARE OIL FILLED UNDER
VACUUM WITH DOW-CORNING F.S. 1265 FLUID. (SPECIFIC GRAVITY AT 25 °C = 1.25)
(VISCOSITY AT 25 °C = 300 CENTISTOKES)
CAUTION: DO NOT APPLY VACUUM OR GAS TO PRESSURE PORT.
FLUID COULD BE WITHDRAWN ALLOWING THE PRESSURE MEDIUM TO COME INTO
CONTACT WITH THE SENSING ELEMENTS.

NOTES

- HOUSING MATERIAL: 316L STAINLESS STEEL.
- MAXIMUM MATING TORQUE ON ELECTRICAL CONNECTOR IS 50 IN-LB (5.65 N-m).
- MAXIMUM TORQUE ON PRESSURE FITTING IS 25 IN-LB (2.82 N-m).
- OIL FILLED UNITS GENERATE A PRESSURE HEAD THAT VARIES WITH ORIENTATION.
- RS-232 COMMUNICATIONS PORT MEETS EIA/TIA-232 SPECIFICATIONS.
RS-485 COMMUNICATIONS PORT MEETS EIA/TIA-485 SPECIFICATIONS.
- REFER TO OPERATION MANUAL (DOC #8819-001) FOR COMMANDS AND CONFIGURATION INSTRUCTIONS.
- OPERATION MANUAL AND DIGIQUARTZ® CD LIBRARY SUPPLIED WITH UNIT.
- ELECTRICAL ISOLATION: >100 MEGOHMS AT 500 VDC; <50 uA AT 500 VAC.

CURRENT APPROVALS				Paroscientific, Inc.		DESCRIPTION DIGIQUARTZ® DEPTH SENSOR, INTELLIGENT 8CB SERIES, ELECT ISOL., RS-232/RS-485, .005% R & H			
NAME	DATE	NAME	DATE	4500 140th Avenue NE Tel 425.863.5700 Fax 425.867.5407 website: www.paroscientific.com		SIZE	CAGE	DOCUMENT NUMBER	REV
CAD T. LUXON	2/20/06	MPG	2/20/06	UNLESS OTHERWISE SPECIFIED		A	54535	7613-013	NC
CHK	2/20/06	QA	2/20/06	ALL DIMENSIONS ARE IN INCHES					
ENG T. Luxon	2/20/06	MKTG	2-20-06	DIMENSIONS IN BRACKETS ARE IN CENTIMETERS					
EO NO/EFFECTIVE DATE:				ACAD FILENAME: 7613-013_NC.dwg		SCALE NONE		SHEET 1 OF 1	