

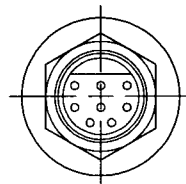
SPECIFICATION CONTROL DRAWING

STANDARD PRODUCT

CAUTION

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

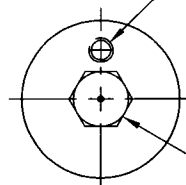
BURTON CONNECTOR
#5507-1508-000X
(MATES WITH #5501-1508-000X)



TOP VIEW
(CONNECTOR END)

IDENTIFICATION DECAL
CHEMICALLY ETCHED

REFERENCE
ORIENTATION,
VERTICAL,
PORT DOWN



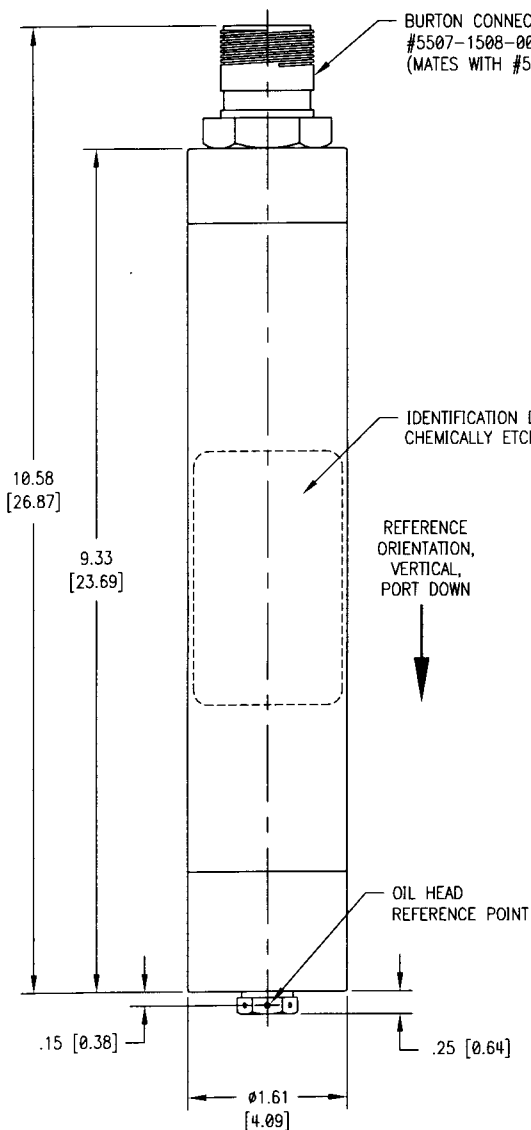
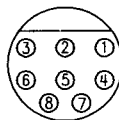
BOTTOM VIEW
(PRESSURE PORT END)

1/4-20 UNC X .39 DEEP
FOR USE IN SALT WATER,
ATTACH SACRIFICIAL ZINC
ANODE (NOT SUPPLIED)

ANTI-FOULING PRESSURE PORT
(SENSOR PORT ACCEPTS PARKER
A-LOK NUT (1B21-316) & FERRULES
(1FF1-316, 1BF1-316) OR EQUIVALENT)

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-



MODEL NO.	PART NUMBER	DEPTH RANGE (METERS)	PRESSURE RANGE
8CB1400-I	1700-001-0	0 TO 1400	0 TO 2000 PSIA (13.79 MPa)
8CB2000-I	1700-002-0	0 TO 2000	0 TO 3000 PSIA (20.68 MPa)
8CB4000-I	1700-003-0	0 TO 4000	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	3.29 LB (1.49 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 F.S. WITH NO 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 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			
NAME	DATE	NAME	DATE			DIGIQUARTZ® INTELLIGENT DEPTH SENSOR, 8CB, ELECTRICALLY ISOLATED, RS-232/485			
CAD R.M. Collado	2/02/03	MFG C. D. D. D.	2/10/07	4500 148th Avenue NE Redmond, WA 98052		SIZE	CAGE	DOCUMENT NUMBER	REV
CHK [Signature]	2/2/03	QA [Signature]	2/5/07	Tel 425.883.8700 Fax 425.867.5487		A	54535	7613-001	E
ENG T. Luxon	2/2/07	MTG [Signature]	2-6-07	website www.paroscientific.com		SCALE	NONE	SHEET	1 OF 1
EO NO/EFFECTIVE DATE: EO 7060				ACAD FILENAME: 7613-001_E					