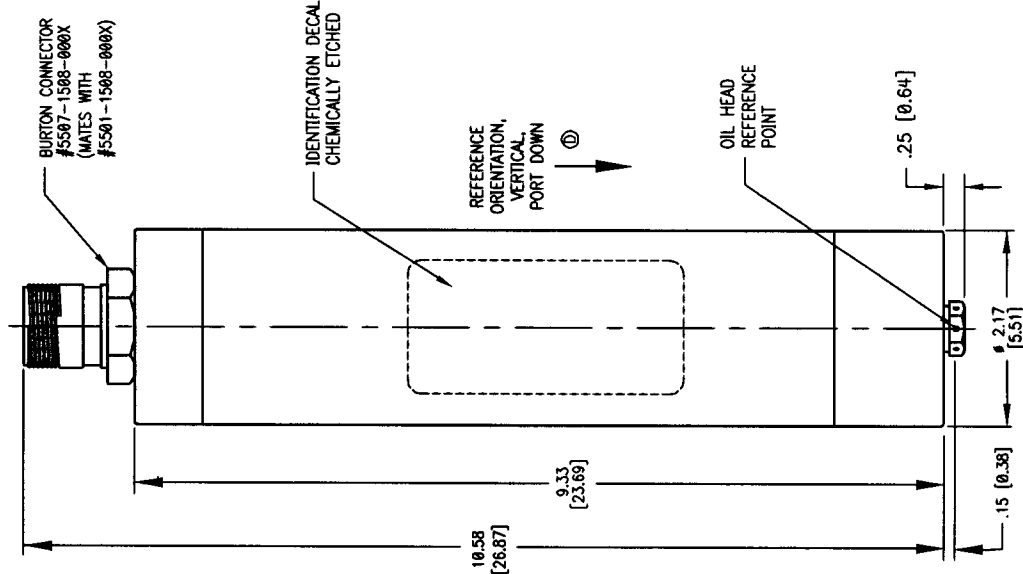


SPECIFICATION CONTROL DRAWING

STANDARD PRODUCT

DOC. NO. 7613-002



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
8CB7000-1	1700-0004-0	0 TO 7000	0 TO 10000 PSIA (68.95 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	7.85 LB (3.56 KG) MAX
RECOMMENDED INPUT VOLTAGE	+6 VDC MIN TO +16 VDC MAX
TYPICAL CURRENT CONSUMPTION AT +6 VDC	16.5 mA QUIESCENT 32 mA MAX

ENVIRONMENTAL

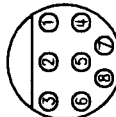
OVERPRESSURE	1.2 X F.S. W/O CHANGE IN CALIBRATION
FUNCTIONAL OPERATIONAL OVERPRESSURE	2 X F.S. (RECALIBRATION REQUIRED)
THE TRANSDUCER BOURDON ELEMENT AND INTERNAL TUBING ARE OIL FILLED UNDER VACUUM WITH DOW-CORNING F.S. 1265 FLUID. (SPECIFIC GRAVITY AT 25 °C = 1.25) (VISCOSITY AT 25 °C = 300 CENTISTOKES)	
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 FLUID COULD BE WITHDRAWN ALLOWING THE PRESSURE MEDIUM TO COME INTO CONTACT WITH THE SENSING ELEMENTS.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.
- DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS ARE IN CENTIMETERS.
- 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.

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-



DWN: <i>[Signature]</i>	DATE 9/20/00	ENG: <i>[Signature]</i>	DATE 9/19/02	REV: RMC (6/6/02)	PAROSCIENTIFIC, INC.	TITLE: DIGIQUARTZ® 8CB7000-1	FILE: SCD\7613-002.D
CHK: TOTT TERRY	DATE 10/10/00	MFG: BERT LETRONDO	DATE 10/10/00	CHK: 9/20/00 9/02 MFG: 9/20/00	4500 148th AVE NE, Redmond, WA 98052	INTELLIGENT DEPTH SENSOR	
QA: WARREN SCHUCHMAN	DATE 10/10/00	APP: <i>[Signature]</i>	DATE 10/10/00	EO 5777	OK: <i>[Signature]</i>	RS-232/RS-485, ELECTRICALLY ISOLATED	SH. 1 OF 1