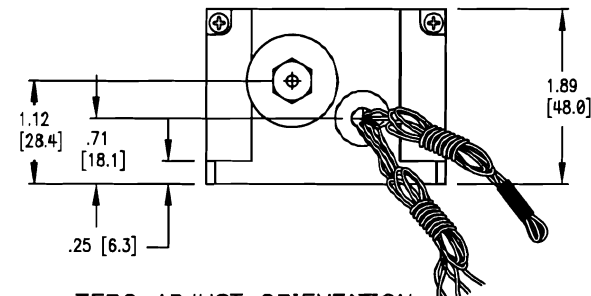
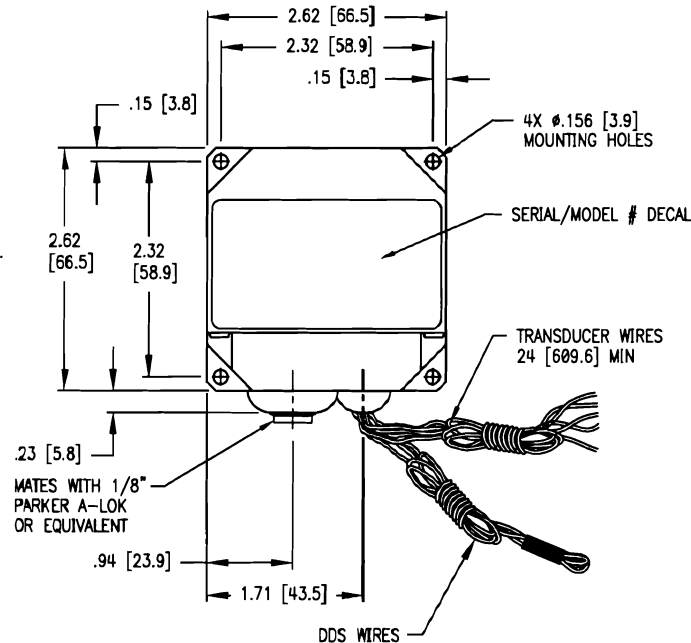


# SPECIFICATION CONTROL DRAWING

STANDARD PRODUCT

## NOTES:

1. POWER GROUND AND SIGNAL GROUND ARE CONNECTED TO THE TRANSDUCER HOUSING THROUGH A .10 UF 50 V CAPACITOR.
2. IF THE TEMP SIGNAL IS NOT REQUIRED, CUT AND INSULATE BOTH WIRES OF THE BLACK/WHITE TWISTED PAIR.
3. MAXIMUM TORQUE USING STAINLESS STEEL TUBE IS 75 IN-LB (8.47 N-M). MAXIMUM TORQUE USING NYLON BUFFER TUBE IS 30 IN-LB (3.39 N-M).
4. PRESSURE MEDIUM MAY BE IN CONTACT WITH STAINLESS STEEL, SOLDER, GOLD AND NICKEL. IN OIL FILLED UNITS, THE PRESSURE MEDIUM MAY BE IN CONTACT WITH NYLON OR STAINLESS STEEL AND OIL.
5. SEE SCD 7374-001 FOR STAINLESS STEEL BUFFER TUBE SPECIFICATION. SEE SCD 7373-001 FOR NYLON BUFFER TUBE SPECIFICATION.
6. DDS IS AN ONBOARD SERIAL EEPROM THAT CONTAINS TRANSDUCER IDENTIFICATION AND CALIBRATION INFORMATION, AND PROVIDES ADDITIONAL MEMORY SPACE FOR END USER DATA.
7. A MINIMUM LEAD LENGTH OF 6 INCHES IS REQUIRED FOR PROGRAMMING DDS.
8. USER MANUAL G8203 CAN BE DOWNLOADED FROM PAROSCIENTIFIC WEBSITE.



ZERO ADJUST ORIENTATION

WIRING TABLE

TRANSDUCER WIRES	
PRESSURE GROUND	BLUE — TWISTED PAIR
TEMPERATURE GROUND	BLACK — TWISTED PAIR
POWER IN	WHITE — TWISTED PAIR
	BLACK
	RED
DIGIQUARTZ DATA STORAGE (DDS) WIRES	
SEE NOTE 6	
SDA — SERIAL DATA	WHT/VIOLET
SCL — SERIAL CLOCK	WHT/BRN
GND	BLK

MODEL NO.	PART NO.	PRESSURE RANGE
215A-10X	1200-00X	0 TO 15 PSIA (0.10 MPa)
223A-10X	1201-00X	0 TO 23 PSIA (0.16 MPa)
230A-10X	1202-00X-0	0 TO 30 PSIA (0.21 MPa)
245A-10X	1203-00X-0	0 TO 45 PSIA (0.31 MPa)
2100A-10X	1204-00X-0	0 TO 100 PSIA (0.69 MPa)
2200A-10X	1205-00X-0	0 TO 200 PSIA (1.38 MPa)
2300A-10X	1206-00X-0	0 TO 300 PSIA (2.07 MPa)
2400A-10X	1207-00X-0	0 TO 400 PSIA (2.76 MPa)

ADD "-0" FOR OIL FILLED  
(230A THRU 2400A W/ NYLON TUBES)  
(2100A THRU 2400A W/ SST TUBES)

101 — 001 FOR STAINLESS STEEL BUFFER TUBE  
102 — 002 FOR NYLON BUFFER TUBE

## PERFORMANCE:

REPEATABILITY .....  $\leq \pm 0.005\%$  OF FULL SCALE  
HYSTERESIS .....  $\leq \pm 0.005\%$  OF FULL SCALE  
ACCELERATION SENSITIVITY (FOR NON OIL-FILLED) ....  $\pm 0.0038\%$  OF FULL SCALE/G  
(UNDER FULL SCALE PNEUMATIC PRESSURE LOAD) ....  $0.008\%$  OF FULL SCALE/G WORST AXIS  
VIBRATION SENSITIVITY ..... NEGLIGIBLE  
SUPPLY VOLTAGE SENSITIVITY ..... NEGLIGIBLE

## CHARACTERISTICS:

NOMINAL 10% FREQUENCY CHANGE WITH FULL SCALE PRESSURE WITHIN THE NOMINAL FREQUENCY BAND 30 KHz TO 42 KHz.  
TEMPERATURE FREQUENCY OUTPUT IS 172 KHz ( $\pm 4$  KHz) WITH A NOMINAL SENSITIVITY OF 45 PPM/ $^{\circ}$ C (CALIBRATION COEFFICIENTS PROVIDED).  
WEIGHT ..... 15 OUNCES (430 GRAMS)  
SUPPLY VOLTAGE ..... +5 VDC TO +16 VDC  
NOTE: OUTPUT POWER STAGE IS NOT CURRENT LIMITED AND WILL DRAW CURRENT AS REQUIRED BY THE LOAD ON THE OUTPUT.  
TYPICAL CURRENT CONSUMPTION ..... 1.3 mA MAX  
OUTPUT SIGNAL IS A NOMINAL SQUARE WAVE OF 4 VOLTS AMPLITUDE PEAK TO PEAK, CAPACITIVELY COUPLED WITH SOURCE IMPEDANCE LESS THAN 1000 OHMS.

## ENVIRONMENTAL:

OVERPRESSURE ..... 1.2 X FULL SCALE  
OPERATING TEMPERATURE RANGE: SST TUBE .... -54  $^{\circ}$ C TO +107  $^{\circ}$ C (-65  $^{\circ}$ F TO 225  $^{\circ}$ F)  
NYLON TUBE .... -20  $^{\circ}$ C TO +107  $^{\circ}$ C (-4  $^{\circ}$ F TO 225  $^{\circ}$ F)  
IF TRANSDUCER IS OIL FILLED, MINIMUM OPERATING TEMPERATURE IS -20  $^{\circ}$ C (-4  $^{\circ}$ F).  
OIL-FILLED UNITS HAVE THE PRESSURE PORT OIL FILLED UNDER VACUUM WITH DOW-CORNING FS 1265 FLUID. AT 25  $^{\circ}$ C, SPECIFIC GRAVITY IS 1.25, AND VISCOSITY IS 300 CENTISTOKES.  
CAUTION: IF UNIT IS OIL FILLED, DO NOT APPLY VACUUM TO PRESSURE PORT. OIL COULD BE WITHDRAWN PERMITTING PRESSURE MEDIUM TO COME INTO CONTACT WITH SENSING ELEMENTS.

## CAUTION

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

CURRENT APPROVALS				 Paroscientific, Inc. 4500 140th Avenue NE Redmond, WA 98052 Tel 425.883.8700 Fax 425.867.5487 website www.paroscientific.com	DESCRIPTION DIGIQUARTZ® 2000A PRESSURE TRANSDUCER, ABSOLUTE PRESSURE			
NAME	DATE	NAME	DATE					
CAD <input checked="" type="checkbox"/> Rauli Collado	8/20/15	MFG <input checked="" type="checkbox"/> J. Lopez	8/24/15	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DIMENSIONS IN BRACKETS ARE IN MILLIMETERS DIMENSIONS ARE FOR REFERENCE ONLY	SIZE A	CAGE 54535	DOCUMENT NUMBER 7268-001	REV AC
CHK <input checked="" type="checkbox"/> C. Smith	8/21/15	QA <input checked="" type="checkbox"/> J. Smith	8/21/15					
ENG <input checked="" type="checkbox"/> T. Luxon	8/24/15	MKTG <input checked="" type="checkbox"/> J. Smith	8/21/15					
EO NO/EFFECTIVE DATE: 8112, 8129								
ACAD FILENAME: 7268-001.dwg					SCALE NONE	SHEET 1 OF 1		