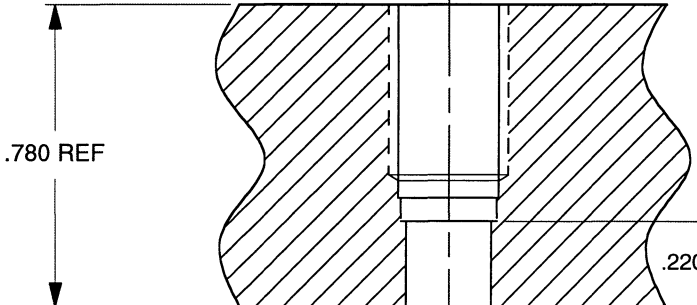
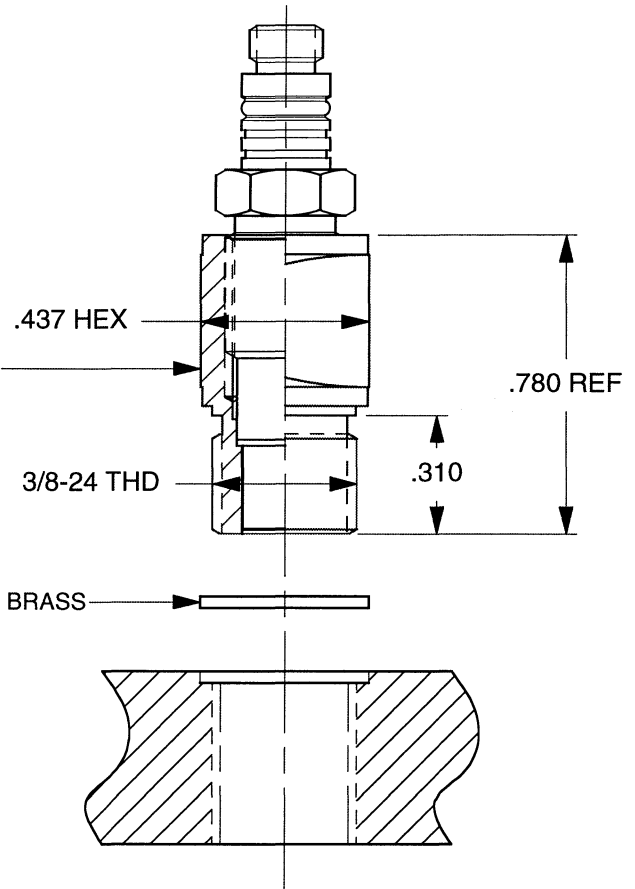


MODEL 6502 ADAPTOR SHOWN WITH 2200V1 PROBE INSTALLED



- PORT PREPARATION INSTRUCTIONS, 2200V 1**
- 1) DRILL AND REAM  $\text{Ø} .221 +.001/-0.000$  THRU
  - 2) C'BORE (OR END CUTTING REAM)  $1/4 (\text{Ø} .250)$  X  $.560$  DEEP
  - 3) C"DRILL  $\text{Ø} .272 +.003/-0.001$  X  $.500$  DEEP
  - 4) BOTTOM TAP 5/16-24 UNF-2B X  $.440$  MIN DEPTH

- PORT PREPARATION INSTRUCTIONS, 6502**
- 1) DRILL Q ( $\text{Ø} .332$ ) THRU (OR  $.450$  MIN DEPTH)
  - 2) TAP 3/8-24 UNF-2B X  $.350$  MIN DEPTH
  - 3) C'BORE  $\text{Ø} .437 +.003/-0.000$  X  $.030$  DEEP

- 1) MOUNTING TORQUE FOR 2200V1 PROBE: 30 LB-INCHES.
- 2) MOUNTING TORQUE FOR 6502 ADAPTOR: 50-60 LB-INCHES.

ALL PART NUMBER LETTER SUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:  
 I.E. - 107-0000-01 (X)  
 M - MACHINED ONLY (UNPLATED)    G - MATERIAL HAS BEEN GRAINED  
 P - PLATED/PAINTED                    S - MATERIAL HAS BEEN SAWCUT  
 H - HEAT TREATED                      E - ENVIRONMENTAL TEST

**EXCEPT AS OTHERWISE NOTED**

ALL DIMENSIONS IN INCHES  
 TOLERANCE: .XXX ±                    .XX ±

SURFACE FINISH  
 EXCEPT AS NOTED ✓

BREAK EDGES TO DEBURR  
 RADIUS OR CHAMFER

△ THESE DIAS ⊙ TO                    T.I.R.

FILLETS -                    MAX RAD.

|   |        |                 |         |
|---|--------|-----------------|---------|
| <b>DYTRAN</b> INSTRUMENTS, INC. <b>ONLY IF IN RED</b> |        | CHATSWORTH, CA. |         |
| SCALE   | 2X     | REV             | DATE    |
| DATE  | 8/6/96 | PART NO.        |         |
| DRAWN   | N.C.   | CHECKED         | D.Z.    |
| APPROVED  |        | NEXT ASSEMBLY   | USED ON |
| TITLE   |        | DWG NO.         |         |
| OUTLINE/INSTALLATION DRAWING, MODEL 2200V1            |        | 127-2200V1      |         |
|   |        | SHEET 1 OF 1    |         |

## DYNAMIC PRESSURE SENSORS

| SPECIFICATION  | VALUE                     | UNITS                 |
|--|---------------------------|-----------------------|
| <b>PHYSICAL</b>  |                           |                       |
| WEIGHT   | 6.0                       | GRAMS                 |
| SIZE (HEX X HEIGHT) MODEL 2200V1   | .438 X 1.31               | INCHES                |
| MODEL 2201V1   | .438 X 1.20               |                       |
| MOUNTING PROVISION [1]   | 3/8-24 UNF-2A MALE THREAD |                       |
| CONNECTOR, AXIALLY MOUNTED AT TOP  | 10-32 UNF-2A              |                       |
| BODY/CONNECTOR MATERIAL  | STAINLESS STEEL, HARDENED | 17-4 PH               |
| DIAPHRAGM MATERIAL   | STAINLESS STEEL           | 316L                  |
| <b>PERFORMANCE</b>   |                           |                       |
| SENSITIVITY, +20%/-10%   | 50                        | mV/Psi                |
| RANGE F.S. FOR +5 VOLTS OUT  | +100                      | Psi                   |
| MAXIMUM PRESSURE   | 1000                      | Psi                   |
| MOUNTED RESONANT FREQUENCY, NOM.   | 300                       | KHz                   |
| MINIMUM RISE TIME OF INPUT PRESSURE PULSE  | 2                         | μSEC                  |
| EQUIVALENT ELECTRICAL NOISE FLOOR (RESOLUTION)   | .0014                     | Psi                   |
| NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD) [2]   | ±1                        | %F.S.                 |
| ACCELERATION SENSITIVITY, AXIAL DIRECTION  | .001                      | Psi/G                 |
| DISCHARGE TIME CONSTANT  | 2.0 to 3.0                | SEC                   |
| LOWER -3db FREQUENCY   | .08                       | Hz                    |
| <b>ENVIRONMENTAL</b>   |                           |                       |
| MAXIMUM VIBRATION  | 5000                      | G's RMS               |
| MAXIMUM SHOCK  | 10,000                    | G's PEAK              |
| TEMPERATURE RANGE  | -100 TO +250              | °F                    |
| MAXIMUM FLASH TEMPERATURE AT DIAPHRAGM   | +3000                     | °F                    |
| THERMAL COEFFICIENT OF SENSITIVITY   | 0.01                      | %/°F                  |
| ENVIRONMENTAL SEAL   | HERMETIC                  | WELDED/GLASS TO METAL |
| <b>ELECTRICAL</b>  |                           |                       |
| EXCITATION (COMPLIANCE) VOLTAGE RANGE  | +18 TO +30                | VDC                   |
| EXCITATION CURRENT RANGE [3]   | 2 TO 20                   | mA                    |
| OUTPUT IMPEDANCE, NOM.   | 100                       | Ohms                  |
| OUTPUT BIAS VOLTAGE  | +7.5 to +9.5              | VDC                   |
| OUTPUT SIGNAL POLARITY FOR INCREASING PRESSURE   | POSITIVE GOING            |                       |
| <b>SUPPLIED ACCESSORIES</b>  |                           |                       |
| MODEL 6600 SEAL, BRASS, 2 SUPPLIED, BOTH MODELS  |                           |                       |
| MODEL 6507 CLAMP NUT, MODEL 2201V1 ONLY  |                           |                       |
| <b>NOTES:</b>  |                           |                       |
| [1] MODEL 2201V1 HAS A SEPARABLE CLAMP NUT INSTEAD OF INTEGRAL THREADS ON THE BODY LIKE THE 2200V1. DURING INSTALLATION OF THE 2201V1, THE CLAMP NUT ROTATES INDEPENDENT OF THE BODY. ALL OTHER SPECIFICATIONS ARE SIMILAR |                           |                       |
| [2] PERCENT FULL SCALE, ZERO BASED BEST FIT STRAIGHT LINE METHOD.  |                           |                       |
| [3] FROM CONSTANT CURRENT TYPE POWER UNIT ONLY. THIS SENSOR MUST <b>NOT BE CONNECTED</b> TO A DC POWER SOURCE THAT DOES NOT HAVE CURRENT LIMITING, 20 mA MAXIMUM.  |                           |                       |
| [4] A CALIBRATION CERTIFICATE TRACEABLE TO NIST IS SUPPLIED WITH EACH INSTRUMENT.  |                           |                       |

### OPERATING INSTRUCTIONS MODELS 2200V1 & 2201V1 PRESSURE SENSORS