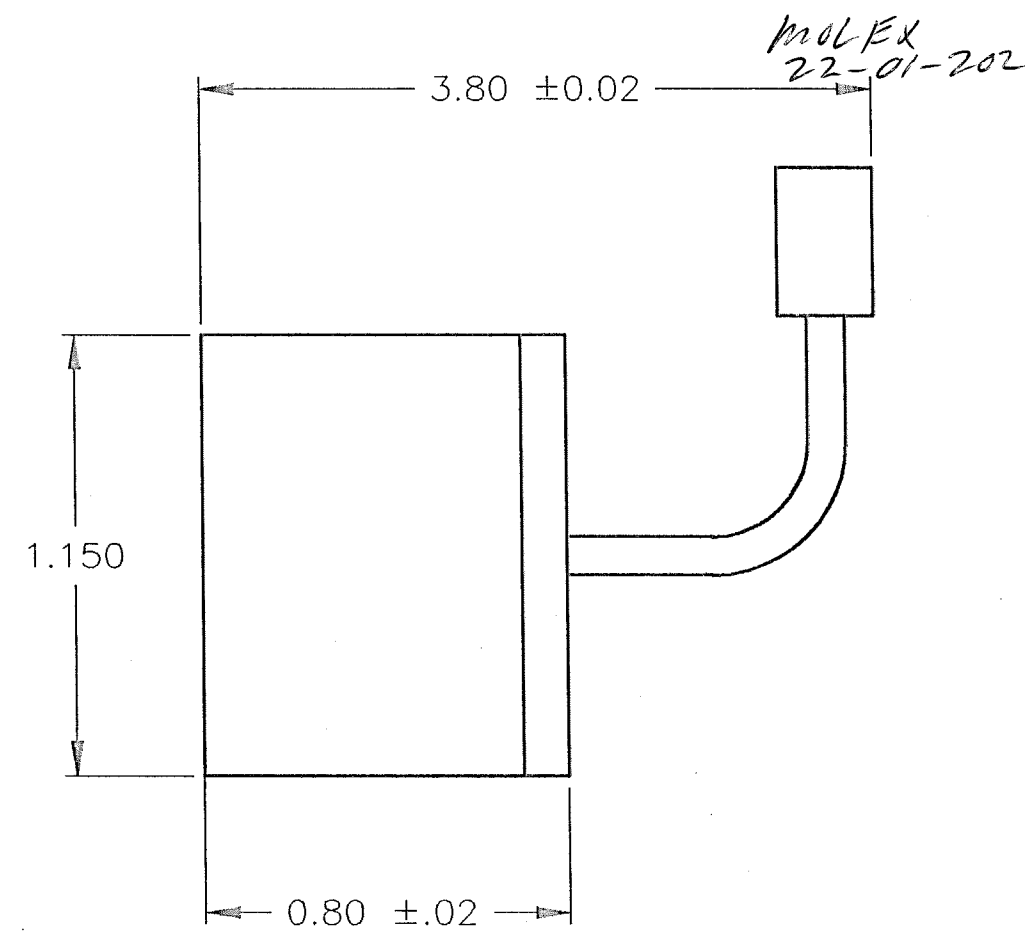
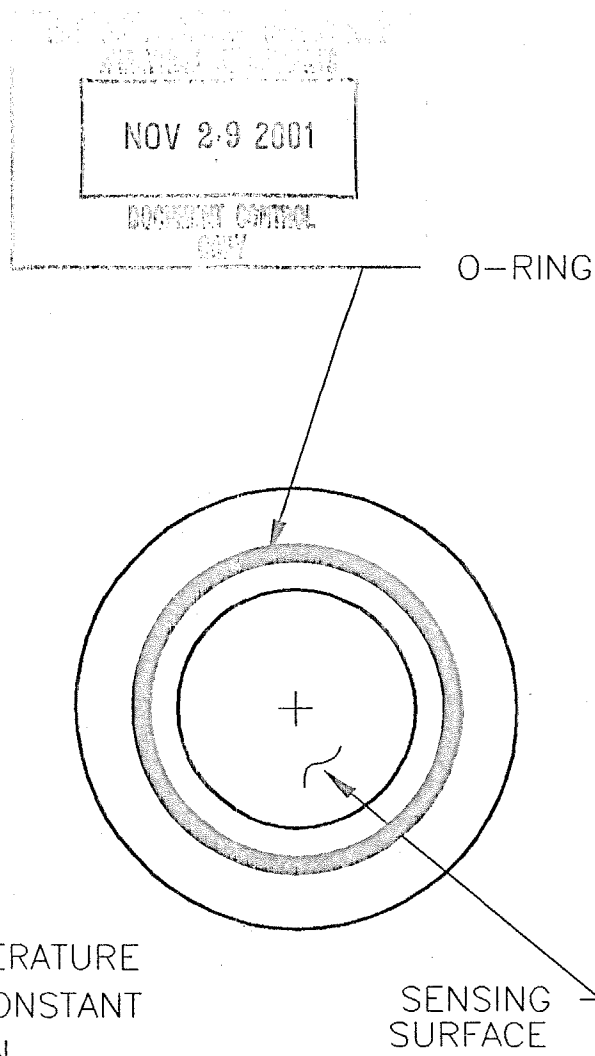


NOTES: UNLESS OTHERWISE SPECIFIED.

- 1. LABEL PER CUSTOMER SPECIFICATION
- 2. TEMPERATURE COMPENSATION ERROR IS  $\pm 5\%$  OF FULL SCALE OVER THE OPERATING TEMPERATURE RANGE. WORST CASE TRACKING ERROR (WITHIN THE FIRST HOUR AFTER A MAXIMUM TEMPERATURE STEP) IS  $\pm 5\%$  OF FULL SCALE. (GAS SAMPLES MUST BE BROUGHT TO AMBIENT TEMPERATURE) PERCENT READOUT IS ONLY WITHIN  $\pm 1\%$  AT CONSTANT PRESSURE (E.G. A 10% INCREASE IN PRESSURE WILL RESULT IN A 10% INCREASE IN READING).
- 3. ASSEMBLY TO BE PACKAGED IN A GAS BARRIER BAG.
- 4. ASSEMBLY MANUFACTURED AND TESTED AND MPD-61679.

SPECIFICATIONS:

- 1) OUTPUT -  $(25 \pm 2\text{mV})$  IN AIR AT 25 °C, SEA LEVEL.
- 2) RANGE - 0-1 ATM PO<sub>2</sub>, 0-2 ATM PO<sub>2</sub>.
- 3) ACCURACY - WITHIN  $\pm 1\%$  OF FULL SCALE AT CONSTANT TEMPERATURE AND PRESSURE (0-1 ATM),  $\pm 2\%$  FULL SCALE AT CONSTANT TEMPERATURE AND PRESSURE (0-2 ATM PO<sub>2</sub>) WHEN CALIBRATED WITH 100% OXYGEN.
- 4) RESPONSE TIME - LESS THAN 6 SECONDS FOR 90% OF FINAL VALUE.
- 5) OFFSET - LESS THAN 0.5% OF OXYGEN EQUIVALENT AT 25°C (77°F) IN ZERO GAS AFTER 36 SECONDS.
- 6) HUMIDITY - 0 TO 99% R.H. (NON-CONDENSING).
- 7) OPERATING TEMPERATURE RANGE - 0 TO 40 °C (32 TO 104 °F).
- 8) STORAGE TEMPERATURE - 0 TO 50 °C (32 TO 122 °F).
- 9) AVG. EXPECTED CELL LIFE - 36 MONTHS IN AIR AT 25 °C AND 50% R.H.
- 10) SHELF LIFE: 24 MONTHS.
- 11) WEIGHT - 1.0 OZ (28.3 GRAMS).
- 12) LOAD - 10K REQUIRED.



| REVISIONS |                         |          |      |         |
|-----------|-------------------------|----------|------|---------|
| REV       | DESCRIPTION             | DATE     | APP. | REV. BY |
| 0         | INITIAL RELEASE 01-0279 | 10/10/01 | M.B. | --      |

| ITEM                                                           | QTY               | PART No.                                                                                                                                                                      | DESCRIPTION                                        |
|----------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| BILL OF MATERIAL                                               |                   |                                                                                                                                                                               |                                                    |
| DO NOT SCALE DWG                                               |                   | THIS DRAWING IS THE PROPERTY OF TELEDYNE ANALYTICAL INSTRUMENTS AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE COPIED, REPRODUCED OR USED WITHOUT WRITTEN PERMISSION. |                                                    |
| TOLERANCE UNLESS OTHERWISE SPECIFIED: ANGULAR $\pm 1/2^\circ$  |                   | Teledyne Analytical Instruments                                                                                                                                               |                                                    |
| LINEAR { .X = $\pm .1$<br>.XX = $\pm .02$<br>.XXX = $\pm .005$ |                   | A business unit Teledyne Electronic Technologies                                                                                                                              |                                                    |
|                                                                |                   | CITY OF INDUSTRY, CALIFORNIA 91748                                                                                                                                            |                                                    |
| S/                                                             | SIGNATURES        | DATE                                                                                                                                                                          | TITLE                                              |
| N/                                                             | DRET: VF          | 10/9/01                                                                                                                                                                       | SPEC. CONTROL DWG.<br>OXYGEN SENSOR<br>CLASS R-33D |
| I/                                                             | CHK:              |                                                                                                                                                                               |                                                    |
| P/                                                             | APPR:             |                                                                                                                                                                               |                                                    |
| O/                                                             | ENGR: M. GONZALEZ |                                                                                                                                                                               |                                                    |
| F/                                                             | C.O.:             |                                                                                                                                                                               |                                                    |
| REFERENCE                                                      | CAD I.D. B74070-0 | MATL.                                                                                                                                                                         | DWG NO.                                            |
|                                                                |                   |                                                                                                                                                                               | B-74070                                            |
|                                                                |                   |                                                                                                                                                                               | REV 0                                              |

SCALE 2 : 1

SIM

SHEET 1 OF 1

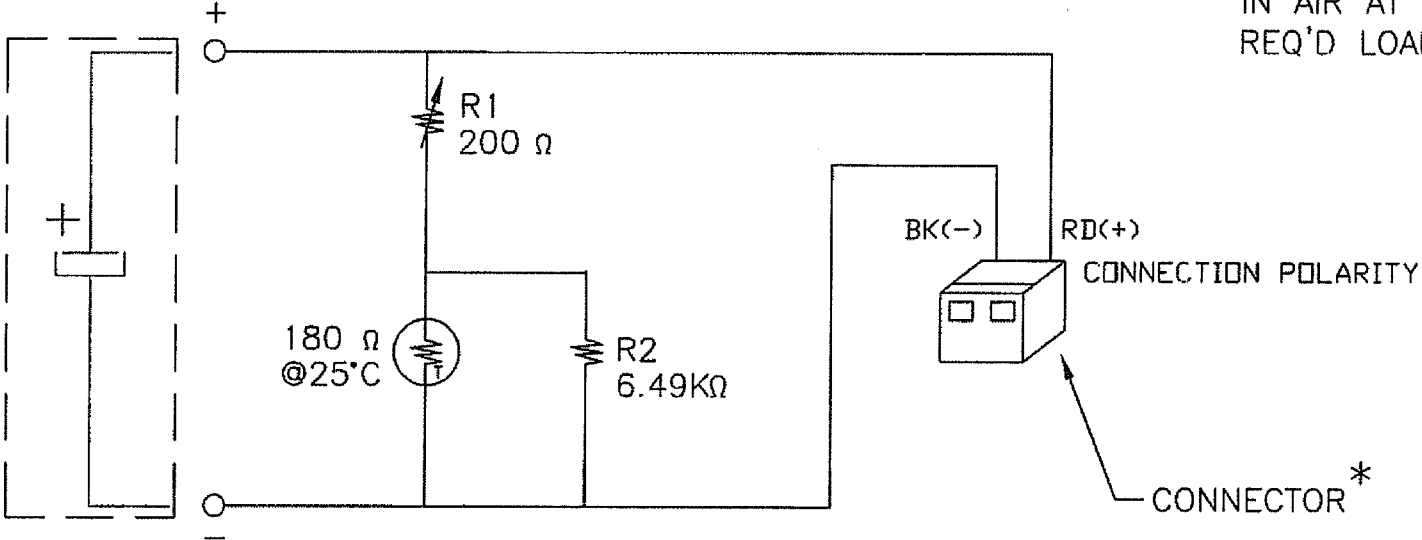
NOTES: UNLESS OTHERWISE SPECIFIED

\* MOLEX 2 PIN CRIMP CONNECTOR HOUSING  
HOUSING TERMINAL #22-01-202 OH

MATING PLUG-MOLEX  
22-28-0021 OR  
22-28-3021 OR  
22-23-5024

| REV | DESCRIPTION | DATE     | APPROVED |
|-----|-------------|----------|----------|
| 0   |             | 10/16/07 |          |

SENSOR OUTPUT:  
25±2mV  
IN AIR AT SEA LEVEL  
REQ'D LOAD: 10K



|                                                                                 |          |                                                                                                                                                                                                |                                                          |  |
|---------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--|
| DO NOT SCALE DWG                                                                |          | THIS DRAWING IS THE PROPERTY OF TELEDYNE BROWN ENGINEERING ANALYTICAL INSTRUMENTS AND CONTAINS CONFIDENTIAL INFORMATION IT IS NOT TO BE COPIED, REPRODUCED OR USED WITHOUT WRITTEN PERMISSION. |                                                          |  |
| TOLERANCE UNLESS OTHERWISE SPECIFIED: ANGULAR $\pm 1/2'$                        |          |  <b>TELEDYNE BROWN ENGINEERING</b><br>Analytical Instruments<br>CITY OF INDUSTRY, CALIFORNIA 91748        |                                                          |  |
| LINEAR $\begin{cases} X &= \pm X \\ XX &= \pm XX \\ XXX &= \pm XXX \end{cases}$ |          |                                                                                                                                                                                                |                                                          |  |
| SIGNATURES                                                                      |          | DATE                                                                                                                                                                                           | TITLE<br><br>CLASS R33D O2 SENSOR<br>SCHEMATIC, PCB ASSY |  |
| DSGN:                                                                           |          |                                                                                                                                                                                                |                                                          |  |
| CHK:                                                                            |          |                                                                                                                                                                                                |                                                          |  |
| ENGR: MG                                                                        |          | 10/16/07                                                                                                                                                                                       |                                                          |  |
| APPR:                                                                           |          |                                                                                                                                                                                                |                                                          |  |
| C74071-3                                                                        | PCB ASSY | S.O.:                                                                                                                                                                                          | MATL                                                     |  |
| NEXT ASSY                                                                       | MODEL    | CAD ID                                                                                                                                                                                         | DWG NO<br>R33D1 Sch Dwg                                  |  |
|                                                                                 |          |                                                                                                                                                                                                | SCALE ____                                               |  |
|                                                                                 |          |                                                                                                                                                                                                | SIM                                                      |  |
|                                                                                 |          |                                                                                                                                                                                                | SHEET 1 OF 1                                             |  |
|                                                                                 |          |                                                                                                                                                                                                | REV<br>0                                                 |  |

*integrated 29/10/07*