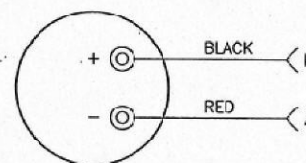
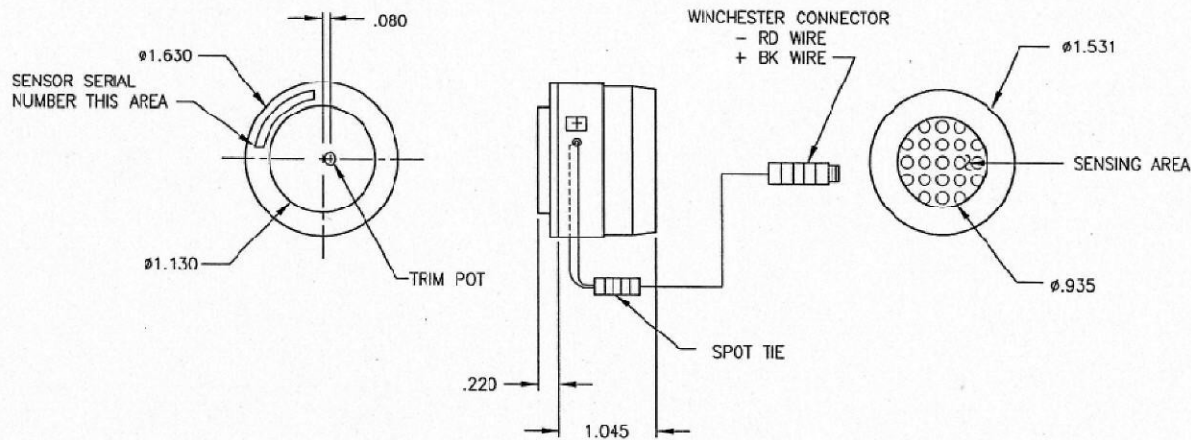


NOTES: UNLESS OTHERWISE SPECIFIED.

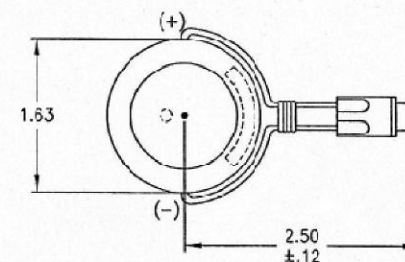
1. ALL COMPONENTS ARE COMMERCIAL GRADE. TO BE ASSEMBLED USING GOOD MANUFACTURING PRACTICES AND TET/AI QUALITY ASSURANCE PROCEDURES.
2. ASSEMBLY TO BE MANUFACTURED WITH NON-MAGNETIC MATERIALS; VERIFICATION OF MAGNETIC SIGNATURE BY OTHERS.
3. ASSEMBLY MAY CONTAIN PVC, POLYETHYLENE OR RTV (SILICONE RUBBER) MATERIALS.
4. ALL SOLDERING WILL BE DONE IN ACCORDANCE WITH TET/AI SOLDERING PROCEDURE P.3.3. (REF.: MARTIN MURRIETTA 1988 WORKMANSHIP STANDARDS SECTION 3.3, PAGES 3.30 TO 3.34).
5. NAVSEA DWG NO. 6195835, 6195888, 6195889, 6196145, 619644, 6196143, SHALL BE USED AS REFERENCE DOCUMENTS ONLY. TET/AI TAKES EXCEPTION TO ALL MIL-SPEC STANDARDS AND FAR CLAUSES REFERENCED IN THESE DOCUMENTS.
6. ABOVE ASSEMBLY TO BE PACKAGED IN A GAS BARRIER BAG AND HOUSED IN A GLASS JAR WITH FOAM PADDING ON ALL SIDES (NOT SHOWN). REF TET/AI DRAWING B-38204-R10DV.
7. THE ABOVE NOTES ARE AN INTEGRAL PART OF THE SPECIFICATIONS AND CANNOT BE ALTERED WITHOUT THE WRITTEN PERMISSION OF TELEDYNE.
8. 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 ± 7.5 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).

R-10DV SPECIFICATIONS

1. OUTPUT IN AIR SET TO 25 ± 2 MV INTO A 5K OHM LOAD AT SETTING TEMPERATURE PRESSURE.
2. RANGE 0-100% OXYGEN (0-1 ATM PP02)
3. RESPONSE TIME: 90% IN LESS THAN 30 SEC @ 25 DEG C.
4. OPERATING TEMPERATURE RANGE: 0-40 DEG C (32-104 DEG F).
5. AVG EXPECTED LIFE 18 MONTHS IN AIR AT 25°C AND 50% RH.
6. HUMIDITY 0 TO 95% RH.
7. STORAGE TEMPERATURE 0 DEG TO 50 DEG C (32 DEG TO 122 DEG F).
8. ACCURACY WITHIN $\pm 2\%$ OF FULL SCALE AT CONSTANT TEMPERATURE AND PRESSURE. WHEN CALIBRATED USING 100% OXYGEN.
9. OFFSET VOLTAGE < 0.25 mV IN N2 AT 25°C (77°F) AT 1 ATA IN ZERO GAS AFTER 3 MINUTES.
10. REQUIRED LOAD 6K OHMS
11. WEIGHT - 1.9 oz. (54 GRAMS)



SCHEMATIC DIAGRAM



TOP VIEW WITH WIRE CONNECTOR

NOTE: Before using this drawing, please contact Teledyne to ensure this is the current revision.

ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIAL			
DO NOT SCALE DWG			
TOLERANCE UNLESS OTHERWISE SPECIFIED: ANGULAR $\pm 1/2^\circ$			
LINEAR: .XX = $\pm .1$, .XXX = $\pm .02$, .XXX = $\pm .005$			
SIGNATURES		DATE	
I/	DRFT: VF	12/7/01	
N/	CHK:		
P/	APPR:		
O/	ENGR: M.GONZALEZ		
F/	S.D.		
REFERENCE	CAD ID: C74320-0		
TITLE			SCALE 1:1
SPEC CONTROL DWG OXYGEN SENSOR CLASS R-10DV			SIM NONE
MAIL			SHEET 1 OF 1
NOTED			REV
DWG NO. C-74320			0

REVISIONS				
REV	DESCRIPTION	DATE	APP.	REV.
0	INITIAL REL. INC ECO 01-0376	12/10/01	MG	--