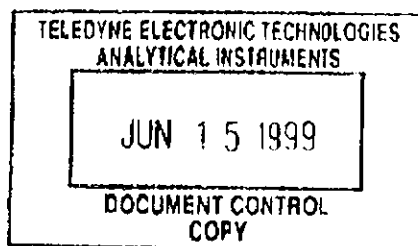


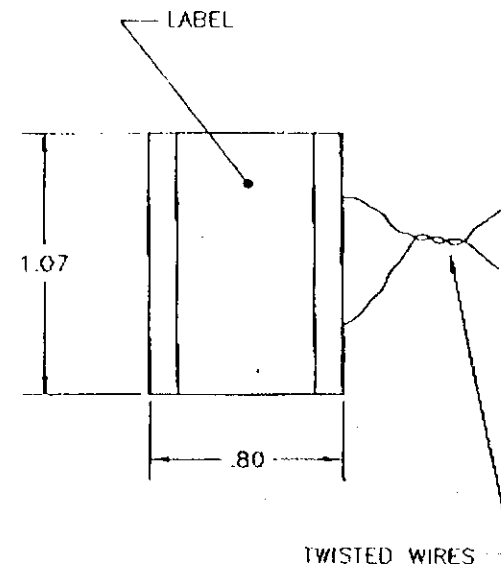
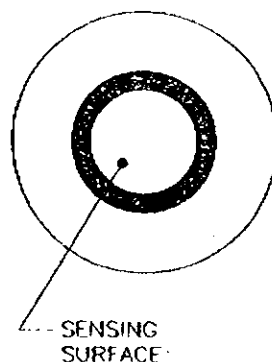
NOTES: UNLESS OTHERWISE SPECIFIED:

1. ASSEMBLY TO BE PACKAGED IN 3" x 4" TRANSPARENT GAS BARRIER BAG.
2. CELL OUTPUT SHOULD REMAIN WITHIN $\pm 10\%$ OF ITS ORIGINAL OUTPUT THROUGHOUT THE CELL'S LIFE.
3. ASSEMBLY TESTED FOR IN AIR OUTPUT ONLY.



SPECIFICATIONS:

1. OUTPUT - (72-140 MICROAMPERES) IN AIR 25°C AT SEA LEVEL.
2. RANGE - 0-25% OXYGEN.
3. RESPONSE TIME - LESS THAN 6 SEC. FOR 90% OF FINAL VALUE.
4. OPERATING TEMPERATURE RANGE -- 0° TO 40°C (32° TO 104°F).
5. AVERAGE EXPECTED CELL LIFE - 36 MONTHS IN AIR AT 25°C & 50% R.H.
6. STORAGE TEMPERATURE - 0° TO 50°C (32° TO 122°F).
7. HUMIDITY - 0 TO 99% RH (NON-CONDENSING).
8. ACCURACY - WITHIN $\pm 1\%$ OF FULL SCALE AT CONSTANT TEMPERATURE AND PRESSURE.
9. WEIGHT - 0.8 OZ (24 GM).
10. OFFSET VOLTAGE -- LESS THAN 0.5% OXYGEN EQUIVALENT AT 25°C IN ZERO GAS AFTER 36 SECONDS.
11. REQUIRED LOAD 10K.

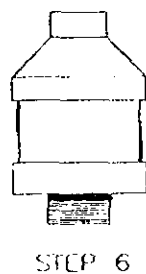
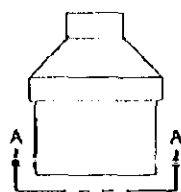
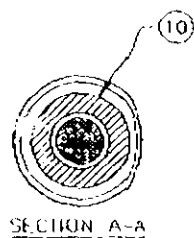
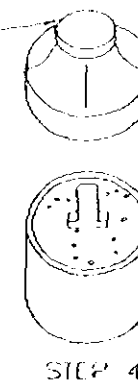
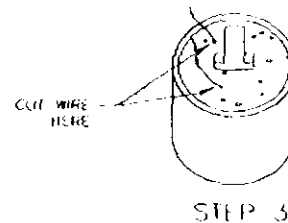
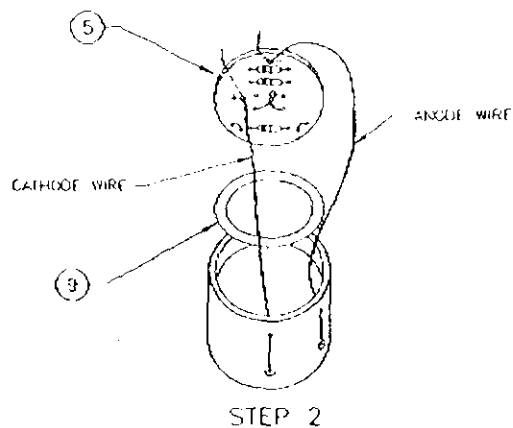
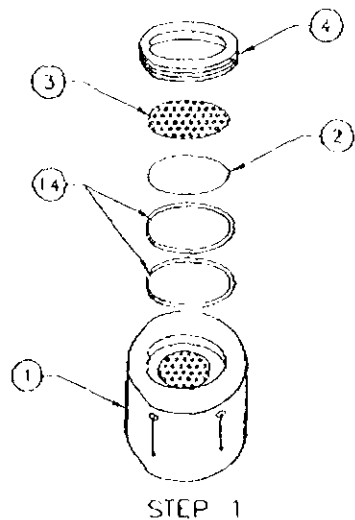


REVISIONS				
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2	INC ECO 96-1215	11/26/96	JML	VF
3	INC ECO 99-0002	1-2-99	JML	VF

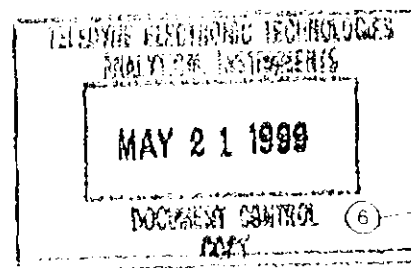
ITEM	QTY	PART No.	DESCRIPTION
DO NOT SCALE DWG			BILL OF MATERIAL
TOLERANCE UNLESS OTHERWISE SPECIFIED: ANGULAR $\pm 1/2^\circ$			THIS DRAWING IS THE PROPERTY OF TELEDYNE ANALYTICAL INSTRUMENTS AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE COPIED, REPRODUCED OR USED WITHOUT WRITTEN PERMISSION.
LINEAR $\begin{cases} .X & = \pm .1 \\ .XX & = \pm .02 \\ .XXX & = \pm .010 \end{cases}$			TELEDYNE ELECTRONIC TECHNOLOGIES Analytical Instruments An Analytical Instruments Company CITY OF INDUSTRY, CALIFORNIA 91748
S/	SIGNATURES		DATE
N/	DRFT: <i>Martha</i>		7/15/96
I/	CHK: JAY LAUER		
P/	APPR:		
O/	ENGR: JAY M. LAUER		
T/	S.O.:		
REFERENCE	CAD I.D. 866939-3		
TITLE			SCALE 2:1
SPEC. CONTROL DWG.			SIM B-45398
P/N D66868			SHEET 1 OF 1
OXYGEN SENSOR ASSEMBLY			REV 3
DWG NO. B-66939			

1. REFER TO MANUFACTURING PROCEDURE MP-061679 FOR ASSEMBLY & TEST PROCEDURES.

[?] SUBSTITUTE ITEM 12 FOR ITEM 5 AS REQUIRED
BY ITEM 1 CURRENT OUTPUT.



STEP 5



REVISIONS				
REV	DESCRIPTION	DATE	APP	REV
0	REL. PER ECO 98-0179	6-2-98	JML	
1	INC ECO 98-0464	10-3-98	<i>[Signature]</i>	✓

15	REF	B-54400	SPEC CONTROL DWG
14	?	O 234	O-RING
13	REF	FORM 241	ROUTE SHEET
12	REF	A-43984	P.C. BOARD ASSEMBLY
11	REF	MPD-61679	MANUFACTURING PROCEDURE
10	1	A-59557	DOUBLE SIDED ADHESIVE WASHER
9	1	A-57108	RING, INSULATING
8	1	O 26	O-RING
7	1	A-52074	DIVERTER CAP
6	1	A-43983	CONTACT CAP
5	1	A-62715	P.C. BOARD ASSEMBLY
4	1	A-40952	CLAMP RETAINER RING
3	1	A-4657B	CLAMP MEMBRANE
2	1	A 40956	CUSHION CLAMP
1	1	C-5320BN	M.F.C. WFT SUB-ASSEMBLY
ITEM	QTY	PART NO	DESCRIPTION

DO NOT SCALE DATA

TOLERANCE UNLESS OTHERWISE
SPECIFIED: ANGULAR $\pm 1/2^\circ$
LINEAR $\begin{cases} X & = \\ XX & = \\ XXX & = \end{cases}$

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TELEDYNE
ELECTRONIC TECHNOLOGIES
Analytical Instruments
An Applied Analytical Company
CITY OF INDUSTRY, CALIFORNIA 91706

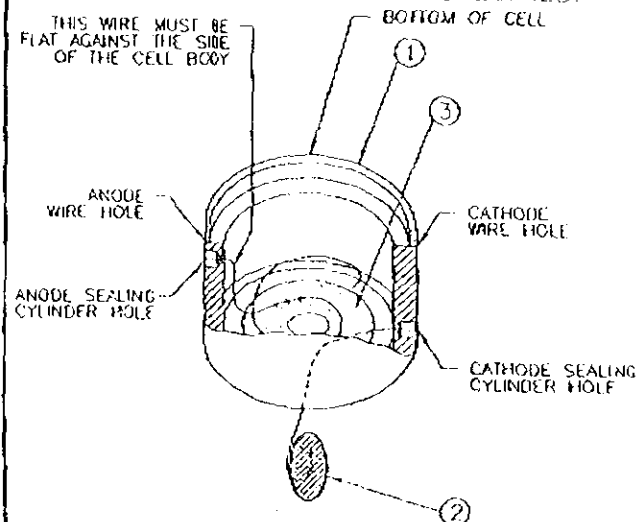
S/	SIGNATURES	DATE	TITLE	SCALE
I/	DRAFT	5/22/88	FINAL ASSEMBLY OXYGEN SENSOR CLASS R22MED (GENERIC)	5/4
N/	CHK			C-53218M
P/	APPR: JJE LAUER	6-2-88		SHEET
Q/	DWG: JJE LAUER			1 OF
R/	SD			
REFERENCE	CAD ID C44611M		MAIL - LISTED - DWS NO C-44611M REC 1	

TELEDYNE ANALYTICAL Fax: 626-961-2538

May 21 '99 9:28 P.02

NOTES: UNLESS OTHERWISE SPECIFIED.

THIS WIRE MUST BE
FLAT AGAINST THE SIDE
OF THE CELL BODY



VIEW 1

CATHODE & ANODE INSERTION

NOTES: UNLESS OTHERWISE SPECIFIED.

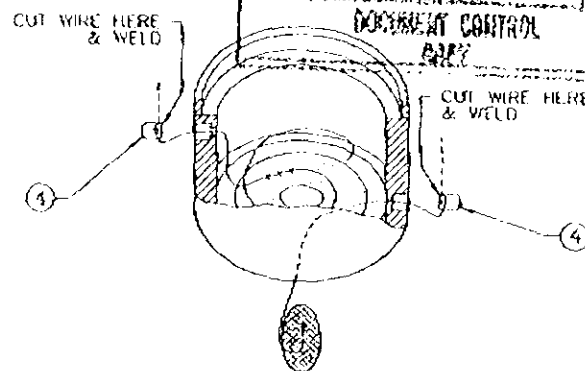
- 1.) CELL BODY MUST BE WASHED PRIOR TO USE!
- 2.) WEAR GLOVES WHEN HANDLING!

REFER TO MP-D616/9 PARA 6.1

TELEDYNE ELECTRONIC TECHNOLOGIES
ANALYTICAL INSTRUMENTS

MAY 21 1999

DOCUMENT CONTROL

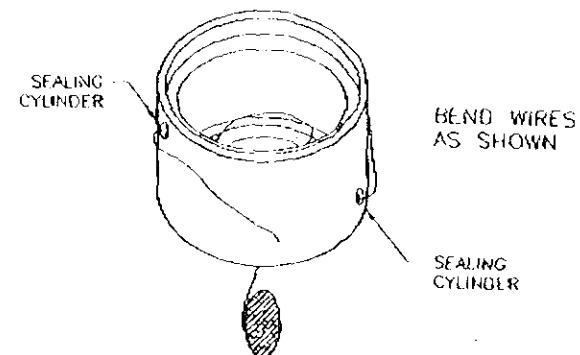


VIEW 2

WELDING SEALING CYLINDERS

REVISIONS

REV	DESCRIPTION	DATE	APP.	REV. BY
5	ECO# 96-317	5/23/96	JML	M.V.
6	INC ECO 98-0464	10-8-98	Box	VF



VIEW 3

MFC CELL BODY DRY SUB-ASSEMBLY

NOTE: DO NOT THREAD WIRES THRU HOLES.

4	2	A-53131	SEALING CYLINDER SUB-ASSEMBLY
3	1	A-10222	ANODE SUB-ASSEMBLY
2	1	B 65566	CATHODE SUB-ASSEMBLY, RHODIUM
1	1	C-43021	CELL BODY
ITEM	QTY	PART NO	DESCRIPTION

BILL OF MATERIAL

DO NOT SCALE Dwg

TOLERANCE UNLESS OTHERWISE
SPECIFIED: ANGULAR $\pm 1/2^\circ$
LINEAR $\begin{cases} X & = \pm 1.1 \\ XX & = \pm 0.2 \\ XXX & = \pm 0.10 \end{cases}$

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TELEDYNE
ELECTRONIC TECHNOLOGIES
Analytical Instruments
an Analytical Instruments Company
CITY OF INDUSTRY, CALIFORNIA 91744

S/	SIGNATURES	DATE	TITLE	SCALE	NONE
IS/	DRF:	11/18/94	MICRO FUEL CELL ASS'Y DRY SUB-ASSEMBLY MEDICAL	SIM	
U/	CHK:			SHEET 1 OF 1	
P/	APPR. J.M. LAUER	12-21-94			
O/	ENGR. JAY M. LAUER				
F/	S.O.:				
REFERENCE	CAD CO. B48237-6				

LISTED -

DWG NO.

B-48237

REV

6