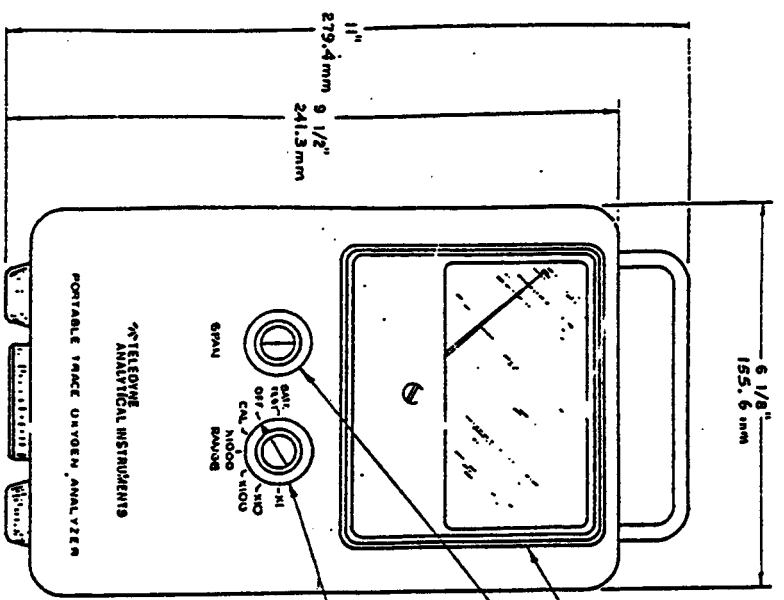


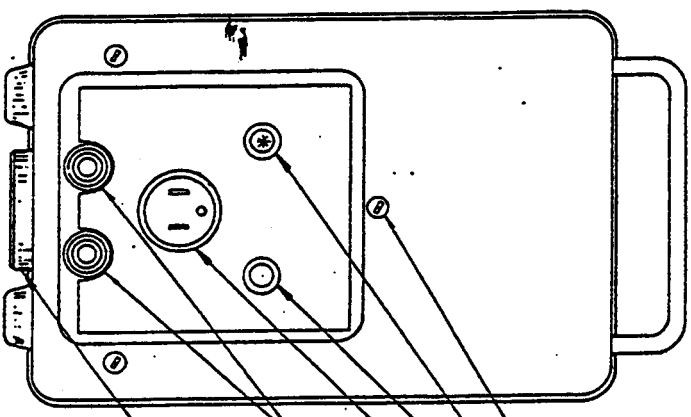
NOTE: INSTRUMENT IS 5-9/8" DEEP,
142.0 mm



PRECISION 0.5% LINEARITY
O₂ INDICATING METER.

CALIBRATION CONTROL, USED TO STANDARDIZE THE INSTRUMENT AGAINST A KNOWN CONCENTRATION OF OXYGEN, USING THIS CONTROL THE CAL. POSITION OF THE RANGE SWITCH, THE CAL. MARK ON THE METER DIAL, AND ATMOSPHERIC AIR, THE INSTRUMENT MAY BE CALIBRATED WITHOUT A SPECIAL SPAN GAS.

RANGE SELECTOR SWITCH, ANALYSIS RANGES OF FROM 0-10PPM TO 0-1% OXYGEN IN DECADE STEPS AND A BATTERY TEST POSITION. FEATURES AN AIR CALIBRATION POSITION (20.9% OXYGEN) TO OBTAIN THE NEED FOR A SPECIAL CALIBRATION GAS.



OUTER CASE 1/4 TURN FASTENER (ONE OF THREE).
LAMP TO INDICATE THAT BATTERY IS BEING CHARGED.
PROTECTIVE FUSE (CHARGING CIRCUIT ONLY)
PRIMARY POWER RECEPTACLE (105-125V 50-60 HZ. FOR BATTERY CHARGING ONLY) MATING POWER CORD ACCOMPANIES INSTRUMENT.
QUICK DISCONNECT SWAGelok SAMPLE FITTING FEATURES AN INTERNAL SHUTOFF VALVE THAT CLOSES AUTOMATICALLY WHEN THE MATING FITTING IS WITHDRAWN. SAMPLE MAY BE INTRODUCED OR VENTED FROM EITHER FITTING.
CELL ACCESS PORT, USED TO REMOVE OR INSTALL THE MICRO-FUEL CELL.

IMPORTANT OPERATIONAL NOTES

1. ALWAYS CONNECT THE VENT FITTING FIRST AND THEN THE SAMPLE SOURCE FITTING. WHEN DISCONNECTING, ALWAYS DISCONNECT SAMPLE SOURCE FITTING FIRST AND THEN THE VENT FITTING. PRESSURIZING THE CELL MAY DAMAGE IT AND VOID THE WARRANTY.
2. SAMPLE FLOWRATE SHOULD BE 0.1 TO 1.0 LITERS/MIN. IF REQUIRED, THE SAMPLE PRESSURE CAN BE REDUCED BY USING EITHER A REGULATOR OR THROTTLING VALVE.
3. TO CALIBRATE THE INSTRUMENT WITH AN AIR SAMPLE, PLACE THE RANGE SWITCH ON THE CAL POSITION. INSTALL AN OPEN FITTING IN ONE SAMPLE PORT, AND PASTE THE TUBE EQUIPPED FITTING IN THE OTHER PORT. GENTLY DRAW AIR INTO THE INSTRUMENT BY SUCKING ON THE PLASTIC TUBE. NOTE THE METER READING. WHEN IT STABILIZES UNLOCK THE SPAN CONTROL AND ADJUST IT UNTIL THE METER POINTER IS IN COINCIDENCE WITH THE CAL MARK ON THE METER SCALE. AND LOCK THE SPAN CONTROL. REINTRODUCE SAMPLE GAS (OR A LOW PPM OXYGEN GAS) IMMEDIATELY AFTER CALIBRATION.

NOTE: THIS DRAWING NOT TO BE CHANGED WITHOUT THE
AUTHORIZATION OF FACTORY MUTUAL;

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TOLERANCE UNLESS OTHERWISE SPECIFIED		FRAC. 1/16		ANGULAR 1/2°	
TELEDYNE ANALYTICAL INSTRUMENTS					
A DIVISION OF TELEDYNE INC.					
TAMMINGTON, CALIFORNIA					
PORTABLE TRACE OXYGEN ANALYZER		SCALE		217 DATE 76	
MODEL 311		DRAWN		APR 1979	
PICTORIAL DIAGRAM		DWG No. B-9271			