



**NOTES :**

**GENERAL**

OUTPUT TO THE INSTRUMENT FROM THE PREAMP IS UNITY GAIN, INVERTED POLARITY.

WHEN A COMBINATION ELECTRODE IS USED, REFERENCE CONNECTION IS MADE THROUGH THE BNC CONNECTOR.

IF A SEPARATE REFERENCE CELL IS USED, CONNECT IT TO TERMINAL 5 OF THE PREAMP, AND LEAVE THE WIRE IN PLACE FROM 5 TO COM.

**TEMPERATURE COMPENSATION**

NORMAL 2220 TC IS ACCOMPLISHED WITH A NEGATIVE COEFFICIENT THERMISTOR THAT READS 2KΩ AT 25°C, CONNECTED AS SHOWN.

THE V1 AMPLIFIER CAN PERFORM AUTOMATIC COMPENSATION USING A 3KΩ AT 25°C BALCO ELEMENT, WITH A SLOPE OF +13.5Ω/°C.

ONLY ONE AUTO TC CAN BE USED AT ONE TIME. REPLACE THE UNUSED ONE WITH A FIXED RESISTOR HAVING THE SAME VALUE AS THE UNUSED ELEMENT AT 25°C.

**SHIELDING**

DON'T LET ANY OF THE LEADS, OR THE BNC CONNECTOR TOUCH METAL PIPING, CONDUIT, OR OTHER EARTH GROUNDS. THIS WILL CREATE A "GROUND LOOP" AND CAUSE VERY UNSTABLE READINGS.

NOTES UNLESS OTHERWISE SPECIFIED:

		11751 Markon Drive	
		Garden Grove, CA. 92841 USA	
		phone: 714-895-4344 fax: 714-894-4839	
DRAWN	BOB HUNT	TITLE <b>V1 PREAMPLIFIER WIRING</b>	
CHECKED		<b>FOXBORO/BALSBAUGH 2220</b>	
APPROVED		SCALE <b>NONE</b>	DRAWING NO.
		SHEET <b>1 OF 1</b>	<b>V1-2220</b>
			REV.