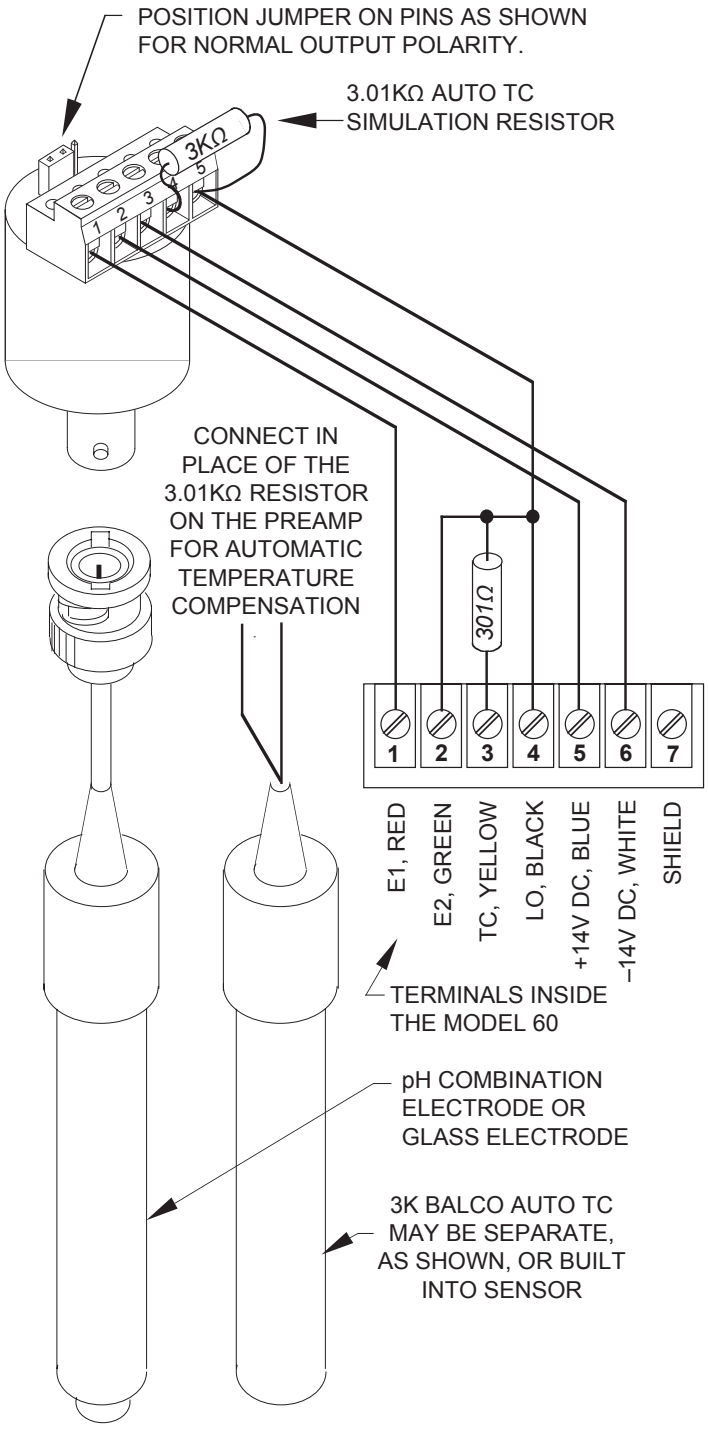

NOTES :

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 **LO**.

TEMPERATURE COMPENSATION

NORMAL MODEL 60 TC IS ACCOMPLISHED WITH A NEGATIVE COEFFICIENT THERMISTOR THAT READS 301Ω 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.

IF YOU WISH TO USE A 3KΩ BALCO ELEMENT, THEN THE 3.01KΩ RESISTOR MUST BE REMOVED, AND THE BALCO CONNECTED IN ITS PLACE. NEXT, PLACE A 301Ω RESISTOR ACROSS **3** AND **4** IN THE MODEL 60 INSTRUMENT CASE.

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:

Sensorex®
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DRAWN **BOB HUNT**	TITLE **V1 PREAMPLIFIER WIRING GREAT LAKES MODEL 60**		
CHECKED			
APPROVED	SCALE **NONE**	DRAWING NO. **V1-60**	REV.
	SHEET **1 OF 1**		