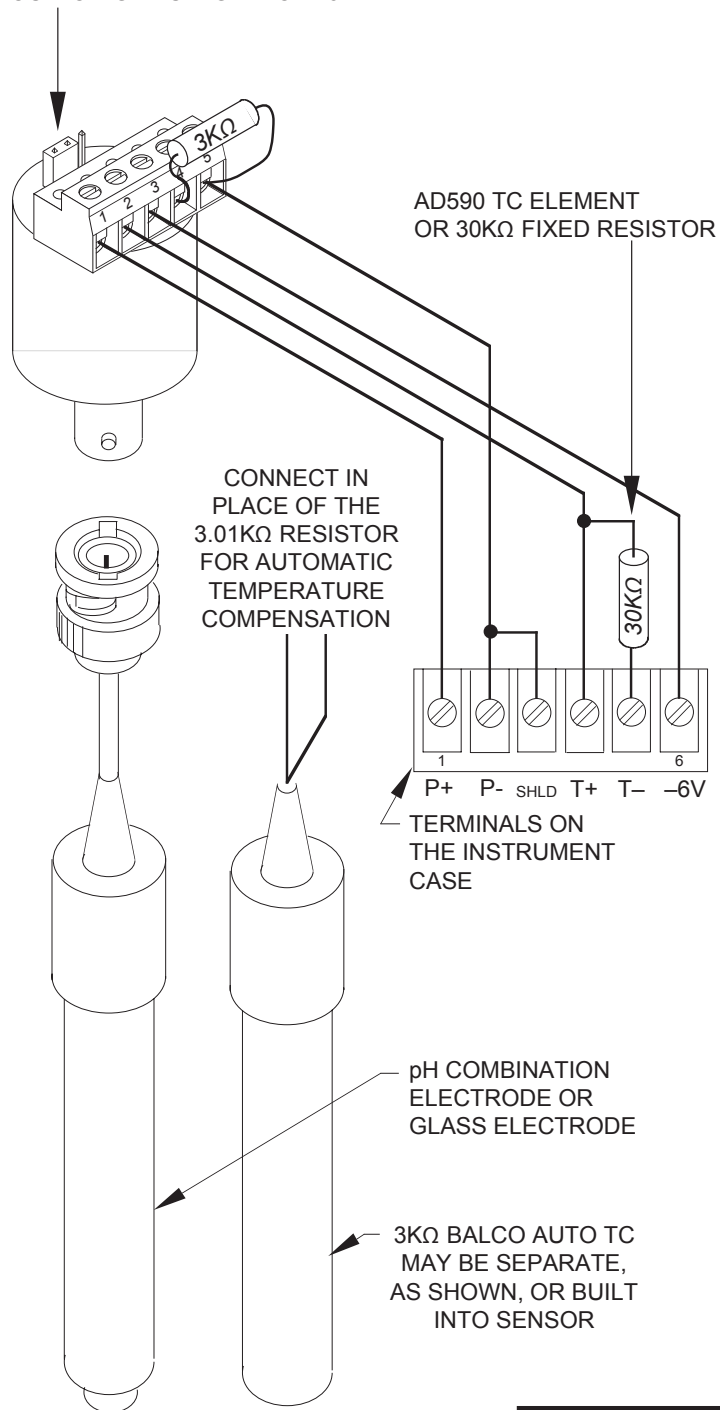


POSITION JUMPER ON PINS AS SHOWN FOR AN OUTPUT GAIN OF +1. THE OTHER POSITION GIVES A GAIN OF -3.



**NOTES :**

**GENERAL**

OUTPUT TO THE INSTRUMENT FROM THE PREAMP IS A GAIN OF 1.

WHEN A COMBINATION ELECTRODE IS USED, REFERENCE CONNECTION IS MADE THROUGH THE BNC CONNECTOR. USE OF A SEPARATE REFERENCE REQUIRES A CONNECTION TO TERMINAL 5, AS SHOWN IN DRAWING AT LEFT.


**TEMPERATURE COMPENSATION**

STANDARD MK710 TC IS ACCOMPLISHED WITH AN AD590 ELEMENT ACROSS T+ AND T-. THE SSA AMPLIFIER CAN ALSO PERFORM AUTOMATIC COMPENSATION USING A 3KΩ AT 25°C BALCO ELEMENT, WITH A SLOPE OF +13.5Ω/°C. THE AMPLIFIER SHIPS WITH A 3.01KΩ RESISTOR BETWEEN TERMINALS 4 AND 5 TO SIMULATE 25°C. IF A 3K BALCO ELEMENT IS USED, THIS RESISTOR MUST BE REMOVED. ONLY ONE AUTO TC CAN BE USED AT ONE TIME. REPLACE THE UNUSED ONE WITH A FIXED RESISTOR. THE AD590 CAN BE REPLACED WITH A 30KΩ RESISTOR, THEN ADJUST TEMPERATURE TO READ 25°C. NOTE THAT ANY INSTRUMENT TEMPERATURE FUNCTIONS WILL BE INOPERATIVE IF THIS IS DONE.

**SHIELDING**

TAKE CARE NOT TO ALLOW THE BNC SHIELD (REFERENCE LEAD) TO CONTACT METAL PIPING OR J-BOXES AT ANY POINT, AS THIS WILL SHORT THE REFERENCE CELL TO EARTH GROUND, AND CAUSE UNSTABLE READINGS. SHIELDING OF THE CABLE FROM AMPLIFIER TO INSTRUMENT IS USUALLY NOT REQUIRED. IF A SHIELD IS USED, CONNECT IT TO THE SHLD TERMINAL, AND MAKE SURE THAT IT DOES NOT TOUCH ANY OF THE OTHER LEADS, OR EARTH GROUND.

NOTES UNLESS OTHERWISE SPECIFIED:

				11751 Markon Drive Garden Grove, CA. 92841 USA phone: 714-895-4344 fax: 714-894-4839			
DRAWN 5/2/89 rh		TITLE					
CHECKED		<b>SSA WITH SIGNET MK710</b>					
APPROVED		SCALE NONE	DRAWING NO.		REV.		
		SHEET 1 OF 1	<b>SSA-710</b>		/		