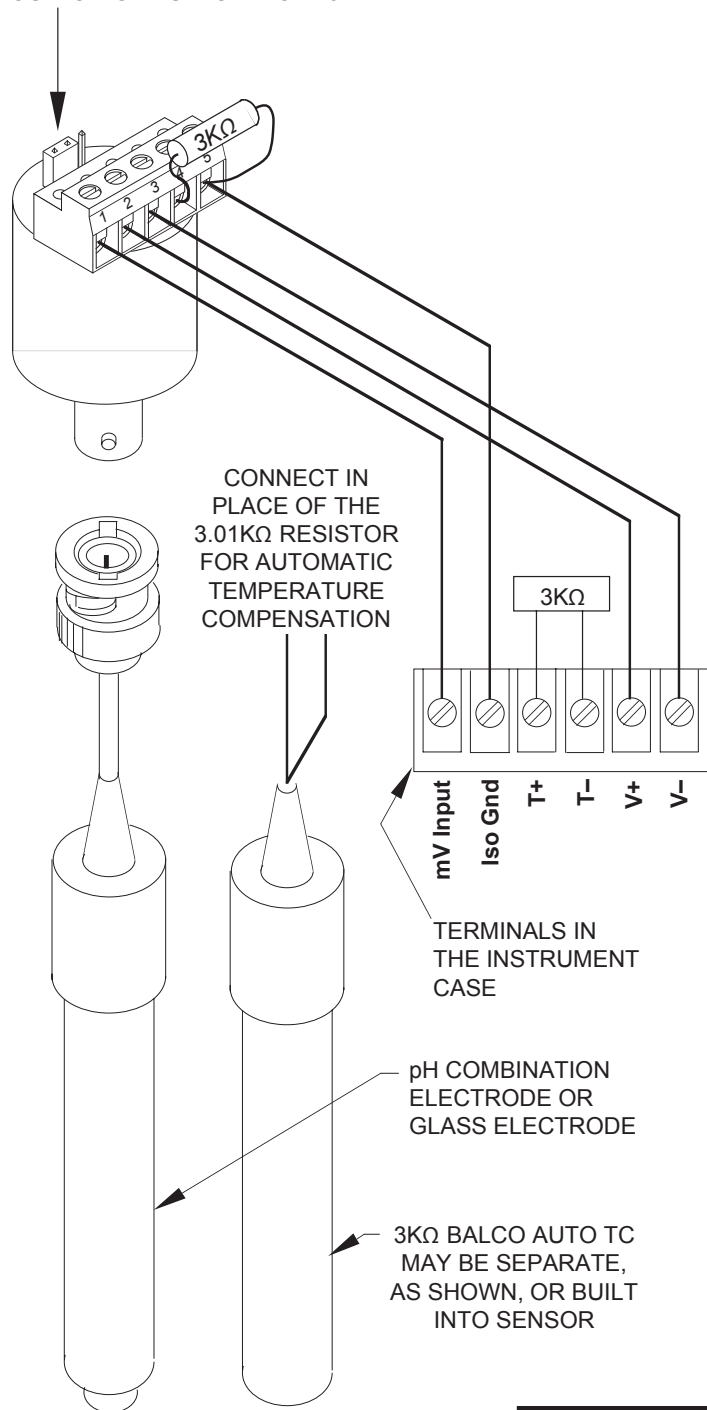


POSITION JUMPER ON PINS AS SHOWN FOR AN OUTPUT GAIN OF +1. THE OTHER POSITION GIVES A GAIN OF -3.



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 5700 TEMP. COMPENSATION IS DONE BY CONNECTING THE SIGNET RECOMMENDED ELEMENT ACROSS T+ AND T-.

IF DESIRED, THE SSA AMPLIFIER CAN ALSO PERFORM AUTOMATIC COMPENSATION USING A 3KΩ AT 25°C BALCO ELEMENT, WITH A SLOPE OF +13.5Ω/°C, TIED TO PREAMP TERMINALS 4 AND 5. IT THEN ALWAYS TRANSMITS THE 25°C pH VALUE TO THE INSTRUMENT. 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 (PREAMP OR INSTRUMENT).

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:

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DRAWN 6/13/96 rh	TITLE		
CHECKED	SSA WITH SIGNET 5700		
APPROVED	SCALE NONE	DRAWING NO.	REV.
	SHEET 1 OF 1	SSA-5700	A