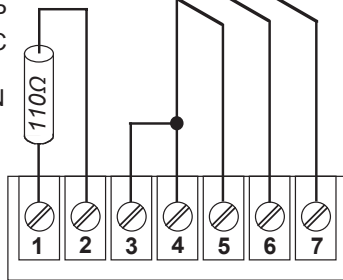


POSITION JUMPER ON PINS AS SHOWN FOR INVERTED OUTPUT POLARITY.

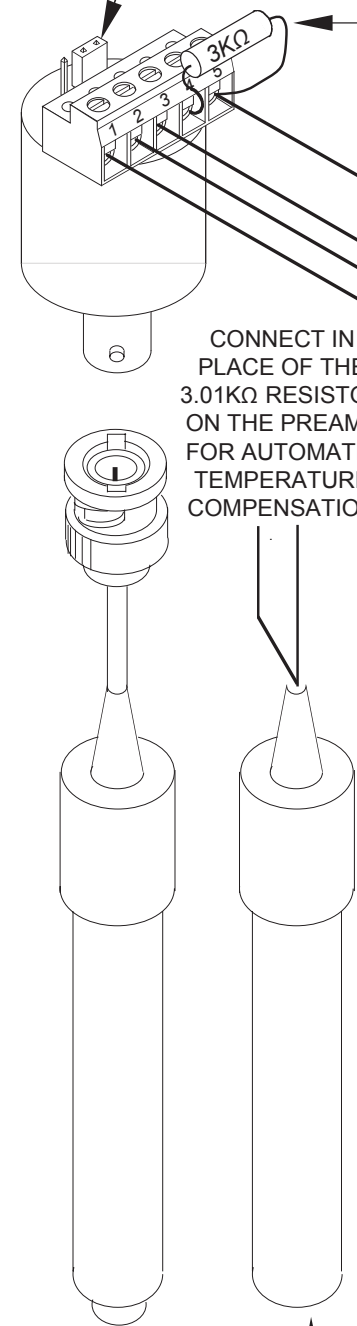
3.01KΩ AUTO TC SIMULATION RESISTOR

CONNECT IN PLACE OF THE 3.01KΩ RESISTOR ON THE PREAMP FOR AUTOMATIC TEMPERATURE COMPENSATION



TC, BLACK  
 TC, WHITE  
 SIGNAL (-), RED  
 SOL.GRD., CLEAR  
 SIGNAL (+), CLEAR  
 PWR. TO SENSOR (+), BROWN  
 PWR. TO SENSOR (-), BLUE

TERMINALS INSIDE THE 874 CASE



pH COMBINATION ELECTRODE OR GLASS ELECTRODE

3K BALCO AUTO TC MAY BE SEPARATE, AS SHOWN, OR BUILT INTO SENSOR

**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 SOL.GRD.

**TEMPERATURE COMPENSATION**

NORMAL 874 TC IS ACCOMPLISHED WITH A POSITIVE COEFFICIENT PLATINUM RTD THAT READS 110Ω AT 25°C, CONNECTED AS SHOWN.

THE V2 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 <b>BOB HUNT</b>		TITLE <b>V2 PREAMPLIFIER WIRING</b>	
CHECKED		<b>FOXBORO 874</b>	
APPROVED		SCALE <b>NONE</b>	DRAWING NO.
Rev. A 12/20/91		SHEET <b>1 OF 1</b>	<b>V2-874</b>
			REV. <b>A</b>