

## NOTES :

### GENERAL

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

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

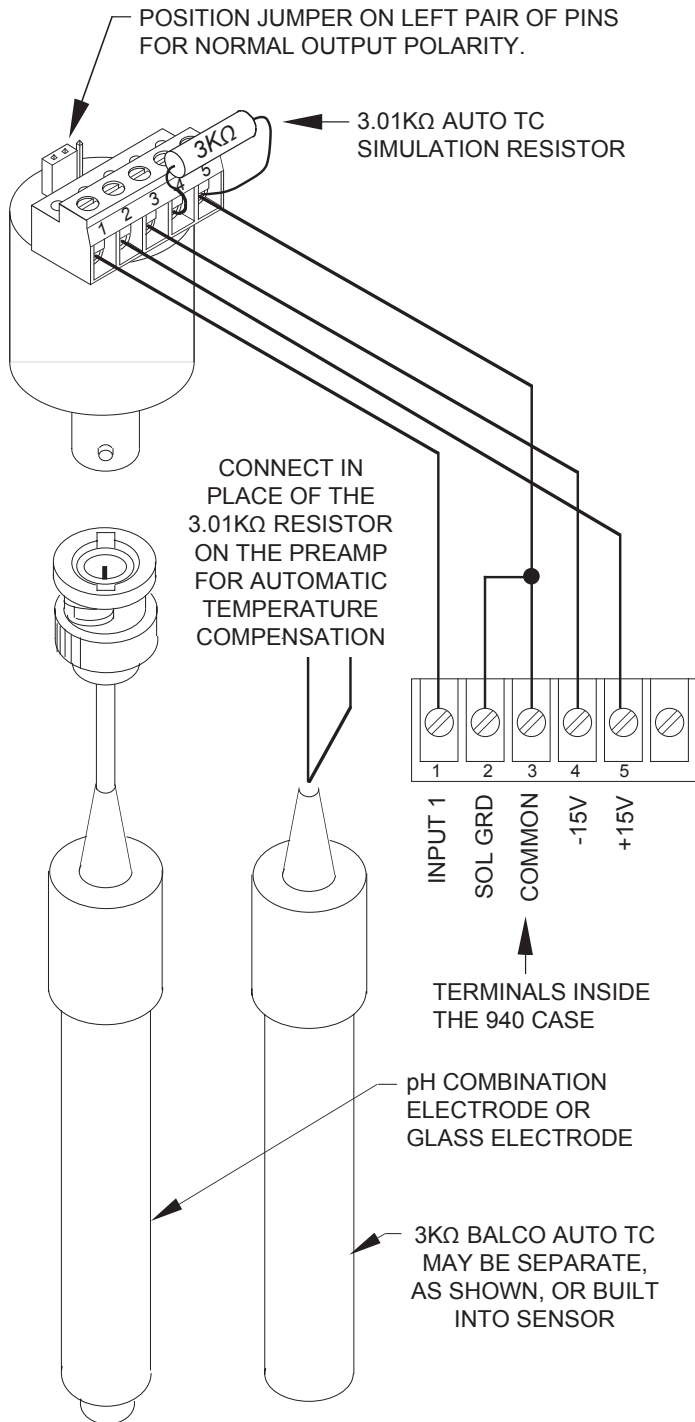
IF A SEPARATE REFERENCE CELL IS USED, CONNECT IT TO TERMINAL 5 OF THE PREAMP, ALONG WITH ANY OTHER LEADS SHOWN IN DWG.

### TEMPERATURE COMPENSATION


FOR AUTOMATIC COMPENSATION, REMOVE THE 3.01KΩ RESISTOR FROM TERMINALS 4 & 5 OF THE PREAMP, AND CONNECT A 3KΩ BALCO TC ELEMENT IN ITS PLACE. THE BALCO HAS A SLOPE OF POSITIVE 13.5Ω/°C, AND READS 3,000Ω @25°C. THERE IS NO AUTOMATIC COMPENSATION CAPABILITY IN THE INSTRUMENT ITSELF.

### EARTH GROUNDING WARNING

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 OR OFF-SCALE READINGS. TO CHECK FOR A GROUND LOOP, DISCONNECT THE BNC AND PUT AN OHM METER BETWEEN TERMINAL 5 OF THE PREAMP AND A GOOD EARTH GROUND. YOU SHOULD READ INFINITY. ANY OHMS READING AT ALL INDICATES A SHORT TO GROUND WHICH MUST BE FOUND AND ELIMINATED. THE MOST COMMON CAUSE OF GROUND LOOPS IS A GROUNDED DEVICE CONNECTED TO THE SIGNAL OUTPUT OF THE METER.



NOTES UNLESS OTHERWISE SPECIFIED:

|  |          |                                       |        |
|--|----------|---------------------------------------|--------|
|  |          | 11751 Markon Drive                    |        |
|  |          | Garden Grove, CA. 92841 USA           |        |
|  |          | phone: 714-895-4344 fax: 714-894-4839 |        |
| DRAWN  | BOB HUNT | TITLE                                 |        |
| CHECKED  |          | V1 PREAMPLIFIER WIRING                |        |
| APPROVED   |          | SCALE                                 | NONE   |
|  |          | DRAWING NO.                           | REV.   |
|  |          | SHEET                                 | 1 OF 1 |
|  |          | V1-940                                |        |