

NOTES :

GENERAL

OUTPUT TO THE INSTRUMENT FROM THE PREAMP IS UNITY GAIN.

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

TEMPERATURE COMPENSATION

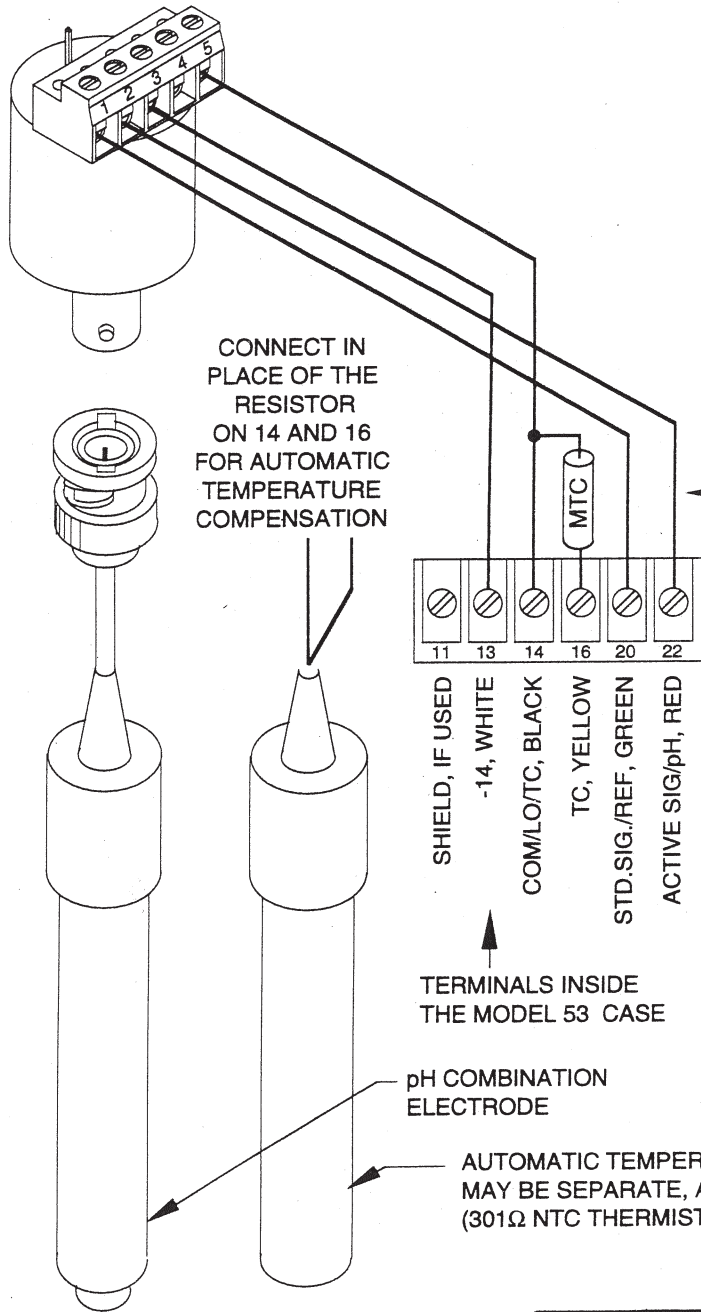
FOR AUTOMATIC COMPENSATION, CONNECT AN ATC ELEMENT BETWEEN TERMINALS 3 AND 8 IN THE INSTRUMENT. THE PREAMPLIFIER HAS NO AUTO TC CAPABILITY.

THIS INSTRUMENT USES EITHER A 301Ω THERMISTOR OR A 1KΩ PTC FOR AUTOMATIC TEMPERATURE COMPENSATION. CONSULT THE INSTRUMENT MANUAL FOR DETAILS.

MTC=25°C SIMULATION, 301Ω OR 1.10KΩ

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.



CONNECT IN PLACE OF THE RESISTOR ON 14 AND 16 FOR AUTOMATIC TEMPERATURE COMPENSATION

- 11 SHIELD, IF USED
- 13 -14, WHITE
- 14 COM/O/TC, BLACK
- 16 TC, YELLOW
- 20 STD. SIG./REF, GREEN
- 22 ACTIVE SIG/pH, RED

TERMINALS INSIDE THE MODEL 53 CASE

pH COMBINATION ELECTRODE

AUTOMATIC TEMPERATURE COMPENSATION ELEMENT: MAY BE SEPARATE, AS SHOWN, OR BUILT INTO SENSOR (301Ω NTC THERMISTOR, OR 1000Ω Pt RTD)

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	1/17/00	GL90A PREAMPLIFIER WIRING GREAT LAKES MODEL 53	
APPROVED		SCALE	NONE
	1/17/00	DRAWING NO.	REV.
		SHEET	1 OF 1
		GL90A-53	