

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

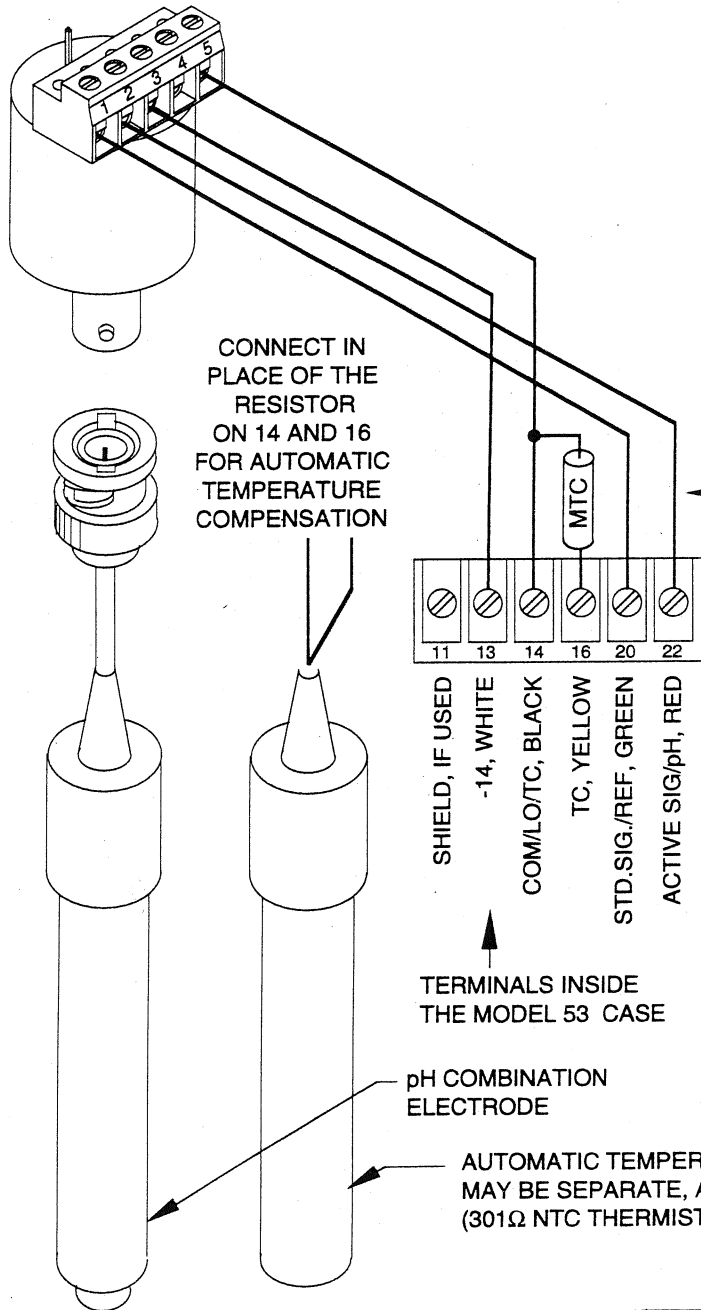
FOR AUTOMATIC COMPENSATION, CONNECT AN ATC ELEMENT BETWEEN TERMINALS 3 AND 8 IN THE INSTRUMENT. THE PREAMPLIFIER HAS NO AUTO TC CAPABILITY.

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

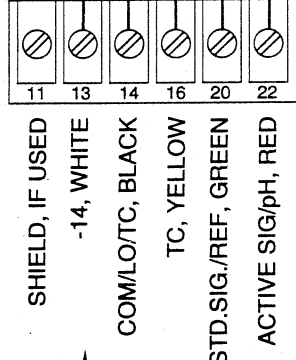
MTC=25°C SIMULATION, 301Ω OR 1.10KΩ

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



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:

SensoreX Corp. 714-895-4344

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