

5. BENCH CALIBRATION PROCEDURE - (Continued)

- p. Set the Decade Box to 4483.0 Ohms and Wait 15 Seconds.
- q. Press FUNC Once. Display Should Read APPLY
INI SPAN
- r. Set the Decade Box to 1312.6 Ohms and Wait 15 Seconds.
- s. Press FUNC Once.
- t. Press LOWR DISP to Return to a Normal Display
- u. With the Decade Box still connected to the Input Terminals, adjust the Decade Box Dials per the Table below. Observe the accuracy of the Process Variable.

<u>OHMS</u>	<u>PV ($\pm 0.1^{\circ}\text{F}$)</u>
1470.9	95.0
2094.4	80.0
2676.8	70.0
3448.8	60.0
4365.1	51.0

Disconnect the Test Equipment.

- v. If Input 2 Board is installed, Repeat Steps f, h, l, t Substituting Input 2 for Input 1.

SUPPLEMENTARY DATA

UDC5000 ULTRA-PRO CONTROLLER WITH
YS1405 THERMISTOR INPUT

NATURE OF MODIFICATION

This UDC5000 Ultra-Pro controller has been modified to accept a YS1405 Thermistor input with a range of 50° to 100°F. The Radiomatic range is not available with the special controller.

CONFIGURATION

This controller has been factory calibrated and will power up in the YS1405 range. If for any reason you change this configuration and then return to it, use the procedure below to reconfigure for YS1405 and perform a bench calibration (see page 2).

INPUT 1

<u>PRESS</u>	<u>UNTIL</u>
"SET UP"	Lower Display reads "INPUT 1"
"FUNC"	Lower Display reads "IN1 TYPE"
"RAISE/LOWER"	Upper Display reads "YS1405"
"FUNC" or "LOWR DISP"	To set other Input 1 parameters as needed To go back to the normal display

INPUT 2

<u>PRESS</u>	<u>UNTIL</u>
"SET UP"	Lower Display reads "INPUT 2"
"FUNC"	Lower Display reads "IN2 TYPE"
"RAISE/LOWER"	Upper Display reads "YS1405"
"FUNC" or "LOWR DISP"	To set other Input 2 parameters as needed To go back to the normal display

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CALIBRATION

Calibrate the unit as an RTD as shown in section 5 of the UDC5000 Ultra-Pro Product Manual with the following exceptions:

Equipment Needed	A Decade box with $\pm 0.01\%$ accuracy, capable of providing stepped resistance values over a minimum range of 0 to 4500 Ohms with a resolution of 0.1 Ohm.
Calibrate 0%	Adjust your calibration device to an output signal equal to the 0% range value (4483.0 Ohms).
Calibrate 100%	Adjust your calibration device to an output signal equal to the 100% range value (1312.6 Ohms).

PARTS LIST

When ordering parts for this controller, include the Model and Serial number with all requests. The special software version number is 6602. Refer to Spec 932058-03XX.