CONTHERM *Scientific Limited*

TECHNICAL MEMORANDUM PRODUCT :ZP13A PCB CALIBRATION No : 0075

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FROM : Contherm Scientific Ltd **DATE :** 15/03/2001

TO : ALL AGENTS

SUBJECT: ZP13A PRINTED CIRCUIT BOARD CALIBRATION

NOTE: This Printed Circuit Board can be configured for operation as:
a) Incubator / Waterbath Wire Link / Jumper is set to 'L'
b) Oven Wire Link / Jumper is set to 'H'

CALIBRATION OF A ZP13A PRINTED CIRCUIT BOARD

The temperature of the circuit board enclosed has been calibrated to a factory setting which will usually differ from that required by the customer out in the field.

It is suggested that after installing the printed circuit board back into the controller that the printed circuit board be re-calibrated at the operating temperature that the customer will use the cabinet at.

1) Turn the temperature dial on the controller to indicate the desired operating temperature.

2) Hang a thermometer in the centre of cabinet chamber

3) Apply power to the cabinet and allow the operating temperature to increase and stabilize. This usually takes about **1 hour**.

4) After **1 hour** read the temperature off the thermometer inside the cabinet.

5) If the measured temperature on the thermometer does not correspond with the desired temperature set on the control knob adjust the **RANGE POTENTIOMETER** on the printed circuit board in small increments before leaving the cabinets temperatures to stabilize again.

6) Re-check the measured temperature on the thermometer after about an hour and if the thermometers temperature still does not correspond with that indicated on the control knob repeat steps 4 and 5 until it does.