

Manual Supplement

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This supplement contains information necessary to ensure the accuracy of the above manual.
This manual is distributed as an electronic manual on the following CD-ROM:

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FLUKE®

Calibration

Change #1

On page 12, after the last bullet in the **Environmental Conditions** section, add:

Note

The Product can show some control sensitivity to moderate or severe electromagnetic fields or conducted interference of certain frequencies. In the presence of radiated EM disturbances, with frequencies of 250 MHz to 400 MHz and with amplitude >1 V/m to a maximum of 3 V/m, add 0.0025 °C to the stability specification. Stability is not guaranteed if amplitude is >3 V/m. When subject to conducted disturbances of 8 MHz to 80 MHz, and amplitude >3 V, add 0.005 °C to the stability specification.

Change #2, 154

On page 18, replace **5.3.2** paragraph, with:

5.3.2 Installation On A Concrete Floor

Using a concrete drill and concrete drill bit, drill three 1/4 inch x 1 3/4 inch deep (approximately 6.5 mm x 32 mm) holes in the concrete floor using the bracket to mark the hole placement. Drop the flare anchor bolt into the hole. Tightening the screw expands the anchor in the drilled hole and secures the bracket. Ensure that the bracket is installed in such a way as to ensure the bath will have a minimum of 6 inches of clearance for air circulation (See Figure 2). Screw the bracket securely to the floor.

Change #3, 514

On page 12, under the **Environmental Conditions**, replace the 1st and 2nd bullets with:

- temperature range: 5 °C to 35 °C (41 °F to 95 °F)
- ambient relative humidity: maximum 80 % for temperatures <31 °C decreasing linearly to 50 % at 35 °C

Change #4, 552

On page 13, under **4.1 Unpacking**, delete the 8th bullet.

Change #5, 640

On page 11, under **Specifications**, replace the **Refrigeration** row with:

Refrigeration R-410A first stage, R-508b second stage,

On page 36, under **8.6 Refrigeration**, change:

From: R-507

To: R-410A

Change #6, 171

On page 39, under **9.2 Reset Cutout**, remove the text:

The cutout has two modes — automatic reset and manual reset. The mode determines how the cutout is reset which allows the bath to heat up again. When in automatic mode, the cutout will reset itself as soon as the temperature is lowered below the cutout set-point. With manual reset mode the cutout must be reset by the operator after the temperature falls below the set-point.

When the cutout is active and the cutout mode is set to manual (**reset**) then the display will flash `cutout` until the user resets the cutout.

On page 40, in **Figure 5** remove the **Cutout Reset Mode** and **Adj. Cutout Reset Mode** options.

On page 50, under **9.10 Cutout** replace the second and third paragraphs with:

If the cutout is activated because of excessive bath temperature, power to the heater is shut off and the bath cools and the display flashes `cutout`. The display continues to flash between the actual temperature and `cutout` until the temperature falls below the reset temperature and the cutout is reset.

On page 52, under **9.13 Operating Parameters**, remove the text:

cutout reset mode parameter

On page 52, remove the entire **9.13.1 Cutout Reset Mode** section.

On page 65, in **Table 5**, under **Operating Parameters Menu**, remove the rows with the these command descriptions:

Read cutout mode
Set cutout mode:
 Set cutout to be reset manually-
 Set cutout to be reset automatically

On page 72, under **12 Maintenance**, replace the 11th bullet point with:

The over-temperature cutout should be checked every 6 months to see that it is working properly. In order to check the user selected cutout, follow the controller directions [9.2 Reset Cutout](#), for setting the cutout. Set the bath temperature higher than the cutout. Check to see if the display flashes `cutout` and if the temperature is decreasing.

Note

When checking the over-temperature cutout, be sure that the temperature limits of the bath fluid are not exceeded. Exceeding the temperature limits of the bath fluid could cause harm to the operator, lab, and instrument.

On page 73, under **Causes and Solutions** for **The controller display flashes “Cut-out” and the heater does not operate** replace the second bullet point with:

Normally, the cutout disconnects power to the heater when the bath temperature exceeds the cutout set-point causing the temperature to drop back down to a safe value. The heater only comes on again when the temperature is reduced and the cutout is manually reset by the operator, see [9.10 Cutout](#). **Check** that the cutout set-point is adjusted to 10 °C or 20 °C above the maximum bath operating temperature.