

# 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 10, 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, 549

On page 11, under **4.1 Unpacking**, delete the 8<sup>th</sup> bullet.

## Change #4, 171

On page 37, 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 `c u t o u t` until the user resets the cutout.

On page 38, in **Figure 5**, remove the **Cutout Reset Mode** and **Adj. Cutout Reset Mode** options.

On page 49, under **9.10 Cutout**, replace the second paragraph 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 `l u t - o u t`. The display continues to flash between the actual temperature and `l u t - o u t` until the temperature falls below the reset temperature and the cutout is reset.

On page 51, under **9.13 Operating Parameters**, remove the text:

The operating parameters menu contains the cutout reset mode parameter.

On page 51, remove **9.13.1 Cutout Reset Mode**.

On page 55 replace section **9.16.1 CTO** with:

This parameter sets the calibration of the over-temperature cutout. This is not adjustable by software but is adjusted with an internal potentiometer. This parameter is set at the factory.

On page 62, in **Table 5**, under **Operating Parameters Menu**, remove the lines with these command descriptions:

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

On page 70, under **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 in [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 71, 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.