Manual Supplement

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This supplement contains information necessary to ensure the accuracy of the above manual.

FLUKE®
Calibration

Change #1

On page 3-4, following 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 5-4, replace ***Installation On A Concrete Floor*** paragraph, with:

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 5-1). Screw the bracket securely to the floor.

Change #3, 516

On page 3-4, under the ***Environmental Conditions***, replace the 1st and 2nd bullets with:

- ambient 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, 551

On page 4-3, under ***4.1 Unpacking***, delete the 8th bullet.

Change #5, 640

On page 3-3, under **Specifications**, replace the **Refrigeration** row with:

Refrigeration R-410A single stage

On page 8-11, under ***Refrigeration*** section, change:

From: R-507

To: R-410A

Change #6, 171

On page 9-3, under **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 9-4, in **Figure 9-1**, remove the **Cutout Reset Mode** and **Adj. Cutout Reset Mode** options.

On page 9-12, under **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 Cut-out. The display continues to flash between the actual temperature and Cu-out until the temperature falls below the reset temperature and the cutout is reset.

On Page 9-13, under **Operating Parameters**, remove the text:

cutout reset mode parameter

On pages 9-13 and 9-14, remove **Cutout Reset Mode**.

On page 10-8, in **Table 10-1**, 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 12-2, 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 13-3, 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 *Cutout*. Check that the cutout set-point is adjusted to 10 °C or 20 °C above the maximum bath operating temperature.

Change #7, 191

On page 8-11, under **Refrigeration**, change:

All instances of: 0 °C

To: -23 °C

On page 9-14, under **Hot Gas Bypass Mode**, in the first paragraph, change:

All instances of: 0 °C

To: -23 °C

On page 10-5, **under Cooling Control**, in the first paragraph, change:

Both instances of: 0 °C

To: -23 °C