InfraCal 2 TRANS-SP Quick Start

Factory calibrated analyzer

See Section 4.1.3 in the InfraCal 2 Operation Manual for details on the analysis screens.

1. Select “Analysis” and then highlight the appropriate factory calibration from the table.
2. Select “Edit” and “Next” to scroll through the optional alarm limits, zero expiration, calibration expiration or other parameters in the menu. Select “Done” when complete. Some options are not available to change in a factory calibration.
3. Select “Done” again to begin analysis.
4. Insert a cuvette filled with clean solvent, close the cover then select “Zero” then “Set Zero”. See section 2.4 for zeroing details.
5. The InfraCal 2 is now ready for sample analysis. See Section 4 Analyzing a Sample for details on sample preparation.

Note: For measurements below 2 ppm it is important to use the same cuvette for zeroing and sample testing. The cuvette must also be oriented in the same direction. Either mark the frosted side of the cuvette as an orientation reference or situate the clear side of the cuvette with the “i” mark in the upper left corner to the left. For measurements below 2 ppm, analyzer must be zeroed prior to each analysis. Also, be sure to close cover for both zeroing and sample analysis.

Uncalibrated analyzer

See Section 4.1.3 in the InfraCal 2 Operation Manual for details on the analysis screens.

Set-up

The user will need to set up as “Admin”

1. Select Setup
2. Under “User Name” choose Admin.
3. Select PIN to enter optional security pin. Enter a minimum of 4 digits to maximum of 15 followed by “=”
4. Select “Done”.
5. Insert a cuvette filled with clean solvent, close cover then select “Zero” then “Set Zero”. See section 2.4 in the InfraCal TRANS-SP OiW Manual for zeroing details.

Note: For measurements below 2 ppm it is important to use the same cuvette for zeroing and sample testing. The cuvette must also be oriented in the same direction. Either mark the frosted side of the cuvette as an orientation reference or situate the clear side of the cuvette with the “i” mark in the upper left corner to the left. For measurements below 2 ppm, analyzer must be zeroed prior to each analysis. Also, be sure to close cover for both zeroing and sample analysis.

Calibration

1. Select “Analysis”, then “New”.
2. Name the analysis by selecting the text box. Enter precision. For levels high level calibrations it should XXXXX. and for levels below 10 ppm it should be XXXX.X. Select desired units.

3. Select “Next” and set Run Countdown Timer (4 minutes is suggested for measurements below 10 ppm and 2 minutes for measurements above 10 ppm) and Zero Countdown Timer (4 minutes is suggested for measurements below 10 ppm and 2 minutes for measurements above 10 ppm). Select “Skip” to activate the option to skip the timer during operation.
4. Set Measurement Time to 30 seconds. The zero and calibration expirations are optional.
5. Select “Next” and set “Maximum Range” to highest calibration point.
6. Select “Next” to set the optional alarm limits.
7. Select “Next” and a table will be displayed, select cell “Point 1” under “Absorbance” and enter “0”.
8. Select “Curve”.
9. With the appropriate standards covering the range of analysis, begin generating the calibration.
10. Insert a cuvette filled with clean solvent, close the cover, select “Zero”.
11. For measurements below 2 ppm, check the zero prior to testing each standard. If reading is not zero, ensure solvent and cuvette is clean. Refilling cuvette with clean solvent may be required. If reading is not zero and cuvette is clean, select “Set Zero”, then select “Done”. See section 2.4 in the InfraCal TRANS-SP OiW Manual for zeroing details.
12. Begin with the lowest standard value. Select “Value” and enter the calibration standard value using the keypad followed by “=”
13. Fill cuvette with the first standard and place into sample holder and select “Run”. Repeat the standard at least three times. The results will be shown on the left side of the screen. Select the results that will be averaged for that standard value. If one of the results is significantly different, it should not be included in the calibration. Tap the value to deselect.
14. When complete, select “Add” and the first calibration point will be added to the table.
15. Select “Value” for the next calibration standard and repeat steps 10-12 for the remaining standards.
16. After the last standard, select “Back” to review the table. Adjustments can be made to the table by tapping the appropriate text box and using the keypad.
17. If the calibration is complete, select “Done”. The calibration is now part of the Analysis table.
18. Select “Done” again to begin analysis. See Section 4 “Analyzing a Sample” the InfraCal TRANS-SP OiW Manual for details on sample preparation.

Calibration with low level standards (0.5 to 7.5 mg/L)

1. For low ppm measurements it is important to use the same cuvette for zeroing and sample testing.
2. The cuvette must also be oriented in the same direction. Either mark the frosted side of the cuvette as an orientation reference or situate the clear side of the cuvette with the “i” mark in the upper left corner to the left.
3. Cover should be closed for both zeroing and sample analysis.
4. Zero and Run timers should be set to 4 minutes.
5. Zero the analyzer prior to each analysis. Additional zero samples are included in the calibration standards purchased through Wilks.

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