

Calibration restore for Series 5 J157-J257-J357 & J457 Refractometers

Note: There are software fixes starting after version XXXXX which will

Purpose:

To restore the Refractometers calibrations back to factory defaults.

Symptoms:

There are 5 major symptoms that will indicate a factory restore is needed:

1. The Sample Quality Indicator will not reach the “Good” level or above 80%
2. The Sample Quality Indicator is frozen whether a sample is loaded on the prism or not. The sample quality Indicator could be frozen anywhere from 0% to 100%
3. The Sample Quality Indicator is fluctuating erratically and will never stabilize.
4. The Live Reading or displayed measurements will not stabilize with or without a sample applied to the prism.
5. The Live Reading or displayed measurement will be frozen at a random value or always display the value for water.

Important Notes:

Depending on the model of refractometer and software revision level, there are different locations for restoring the factory calibrations. This document will show how to restore the calibrations for all software revision levels and models except the J47 and J57 models. See the chart below to determine which steps you need to follow depending on the model and software revision level:

Software Revision level is located in MENU 123 / SYSTEM INFORMATION / SYSTEM STATUS

All J157 – J257 – J357 models:

1. Software revision level 5.1.6.0 and higher starts on page 2.
2. Software version level before 5.1.6.0 starts on page 7.

J457 models only:

1. Software revision level 4.1.6.0 and higher starts on page 2.
2. Software revision levels from 2.6.2.0 to 4.1.5.0 starts on page 7.
3. Software revision levels before 2.6.2.0, please contact RRA.

Quick over view:

There are 3 steps outlined in more detail below for restoring the Refractometers factory calibrations.

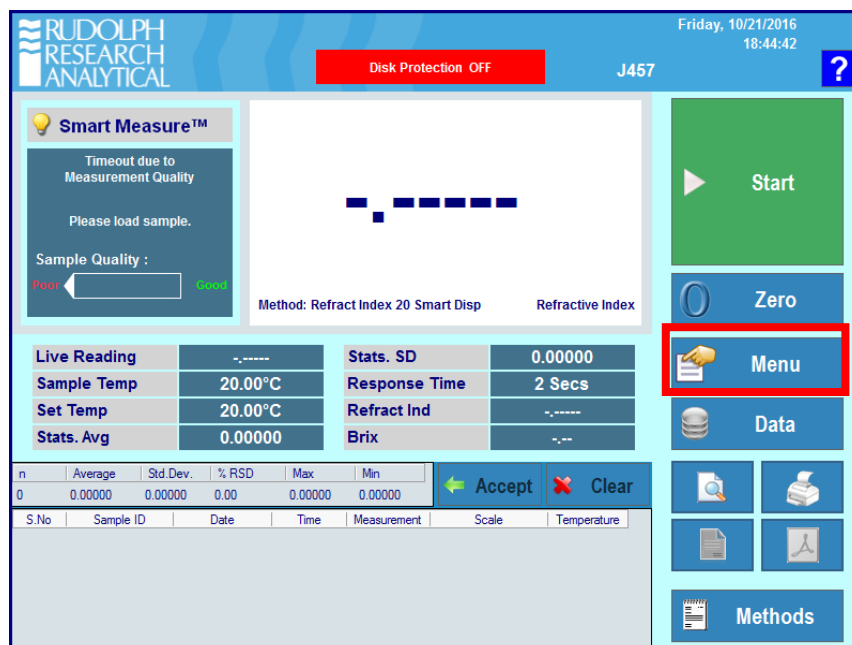
1. Restore the Factory Two Point Calibration
2. Restore the Measurement Status Monitor
3. Perform a new Air Calibration

Detailed instructions:

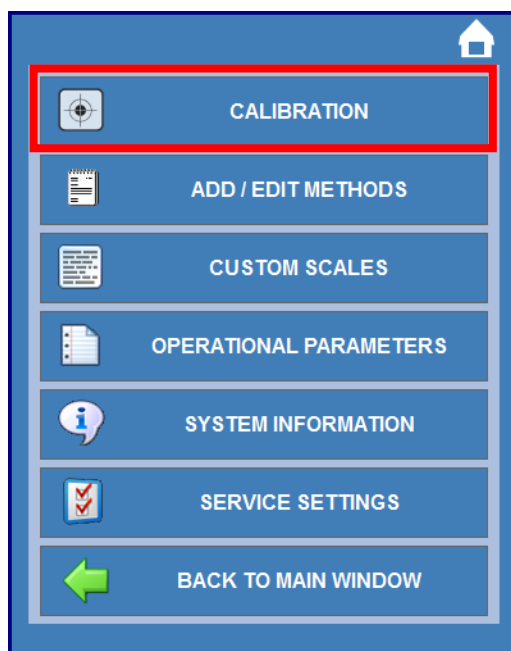
J457 after SW version 4.1.6.0:

J157 – J257 – J357 after SW version 5.1.6.0:

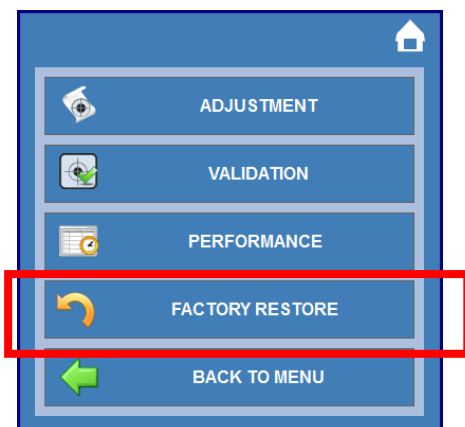
1. Press MENU, the factory default password is 123.



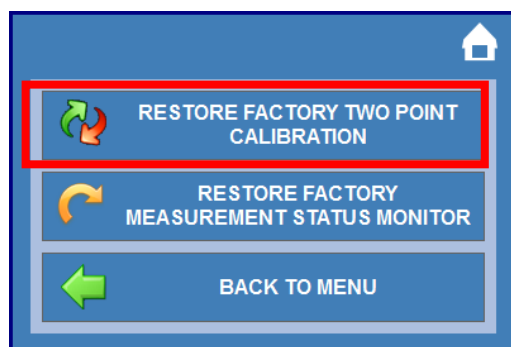
2. Select CALIBRATION



3. Select FACTORY RESTORE



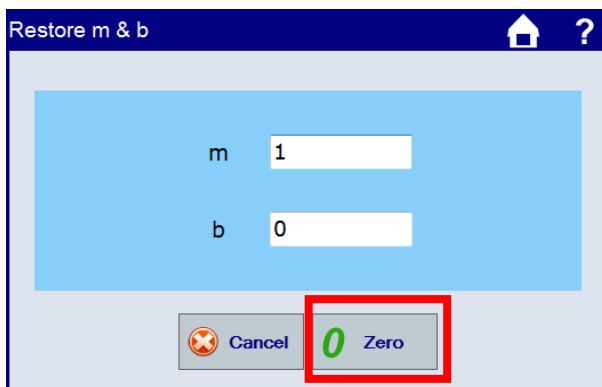
4. Select RESTORE FACTORY TWO POINT CALIBRATION



5. Press ZERO, the values should change to M=1 and B=0, see below. To save:

- Option 1: After ZERO is performed, press CANCEL to exit this screen.
- Option 2: After ZERO is performed, press SAVE to exit this screen.

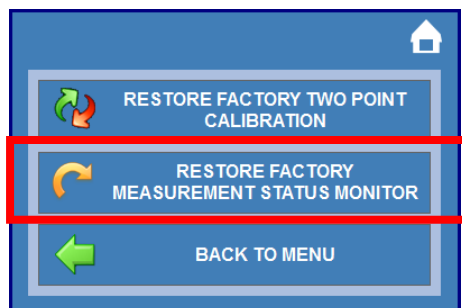
Option 1



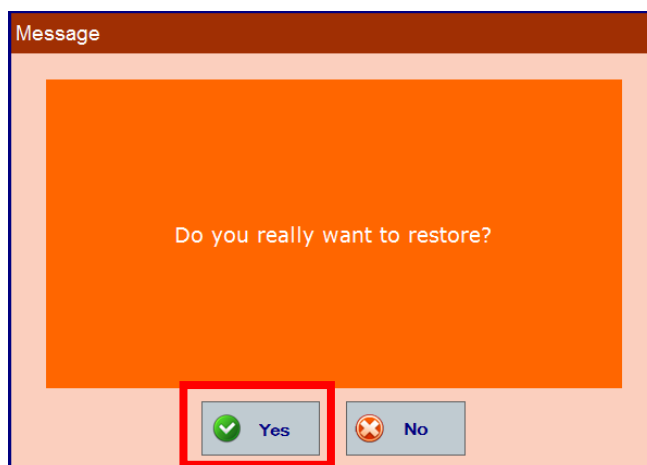
Option 2



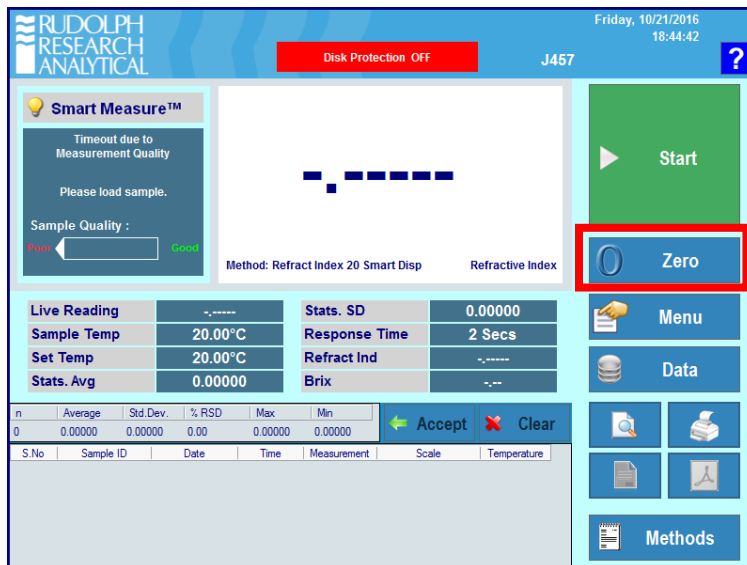
6. Select RESTORE FACTORY MEASUREMENT STATUS MONITOR



7. You will be asked if you really want to restore. Select YES.



8. Last we will perform a new AIR Calibration. Select ZERO



Friday, 10/21/2016 18:44:42 J457

Disk Protection OFF

Smart Measure™

Timeout due to Measurement Quality
Please load sample.

Sample Quality : Poor Good

Method: Refract Index 20 Smart Disp Refractive Index

Zero

Start

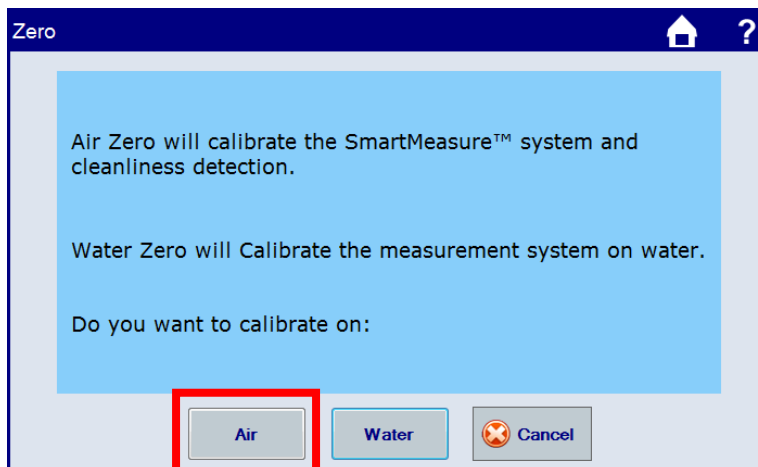
Live Reading	-.-.-.-	Stats. SD	0.00000
Sample Temp	20.00°C	Response Time	2 Secs
Set Temp	20.00°C	Refract Ind	-.-.-.-
Stats. Avg	0.00000	Brix	-.-.-

Accept Clear

S.No	Sample ID	Date	Time	Measurement	Scale	Temperature
0						

Menu Data Methods

9. Select AIR



Zero

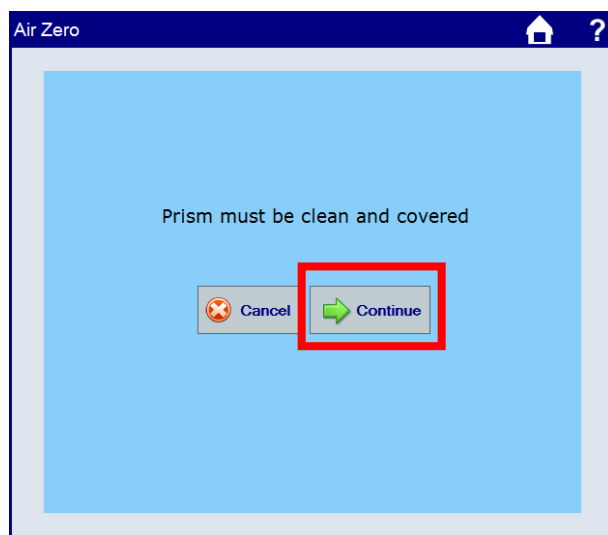
Air Zero will calibrate the SmartMeasure™ system and cleanliness detection.

Water Zero will Calibrate the measurement system on water.

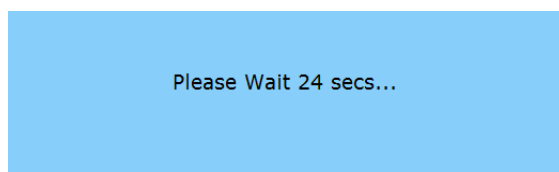
Do you want to calibrate on:

Air Water Cancel

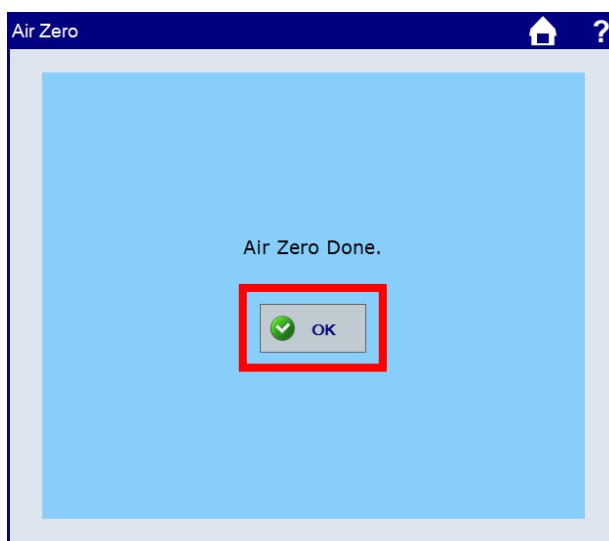
10. Make sure the Refractometer Prism is very clean, dry and covered. Press CONTINUE



11. After Pressing continue, the calibration for air will take approximately 25 seconds.



12. Press OK when completed. The factory calibrations will now be completely restored.

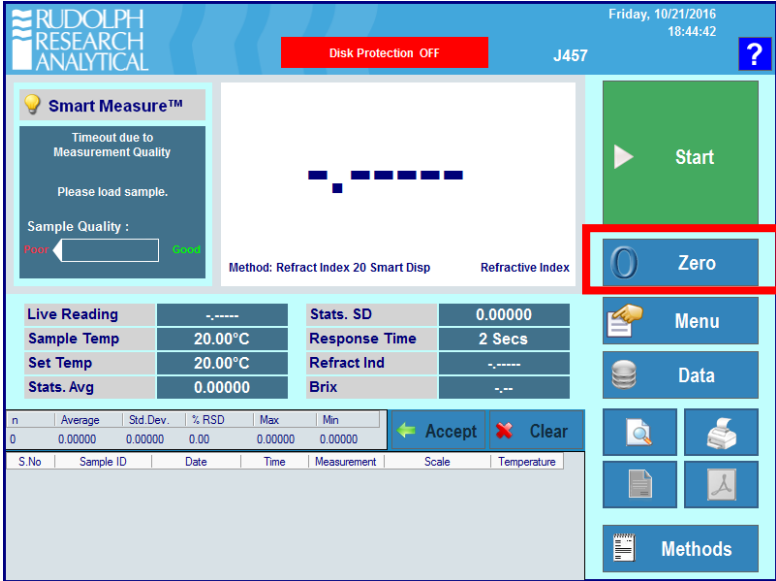


Detailed instructions:

J457 with SW from 2.6.2.0 to 4.1.5.0:

J157 – J257 – J357 with SW earlier than 5.1.6.0

1. Press MENU, the factory default password is 123.



Friday, 10/21/2016 18:44:42

Disk Protection OFF J457

Smart Measure™

Timeout due to Measurement Quality

Please load sample.

Sample Quality : Poor Good

Method: Refract Index 20 Smart Disp Refractive Index

Start

Zero

Menu

Data

Methods

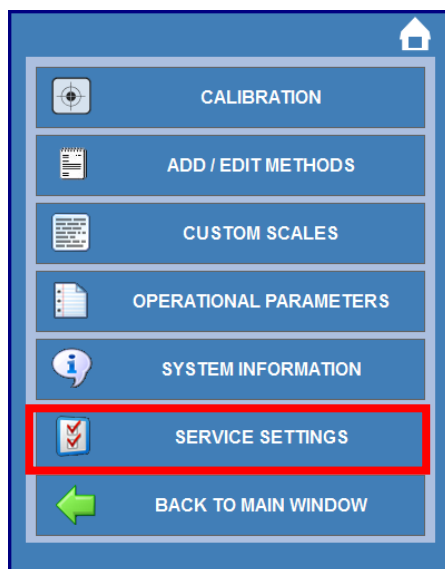
Live Reading	Stats. SD
Sample Temp 20.00°C	0.00000
Set Temp 20.00°C	Response Time 2 Secs
Stats. Avg 0.00000	Refract Ind -
	Brix -

n	Average	Std.Dev.	% RSD	Max	Min
0	0.00000	0.00000	0.00	0.00000	0.00000

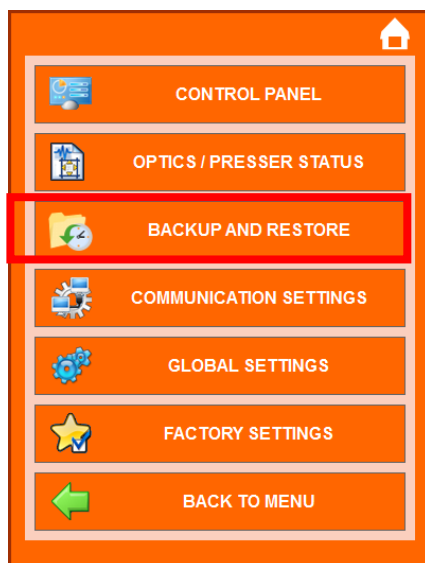
Accept Clear

S.No	Sample ID	Date	Time	Measurement	Scale	Temperature

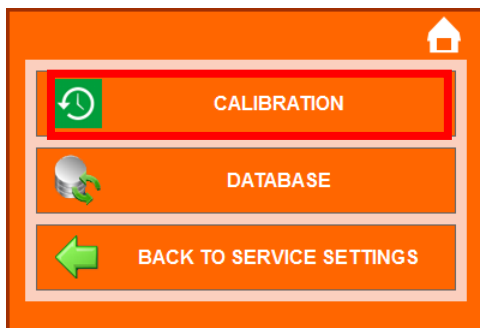
2. Select SERVICE SETTINGS, the default password is 519



3. Select BACKUP AND RESTORE.



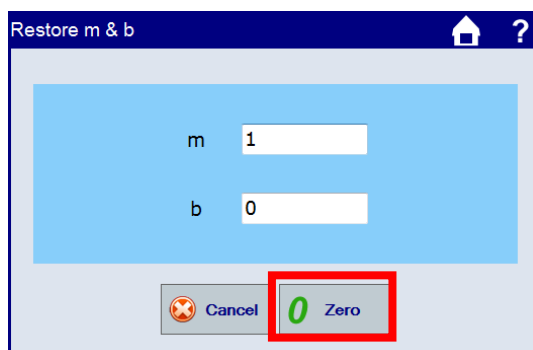
4. Select CALIBRATION



5. Select RESTORE M & B



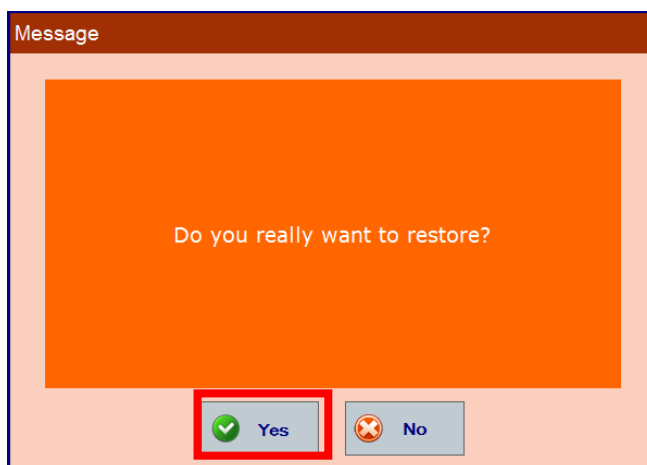
6. Press ZERO, the values should change to M=1 and B=0, see below. After M=1 and B=0, press CANCEL to exit this screen.



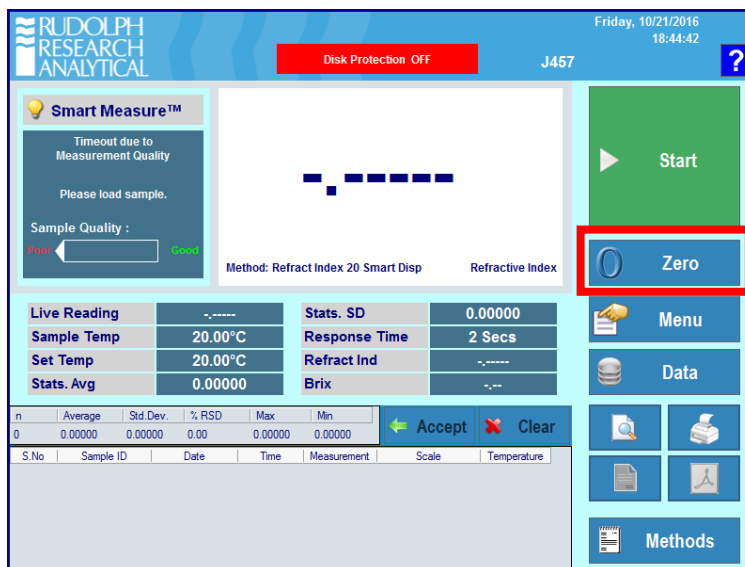
7. Select RESTORE MQC



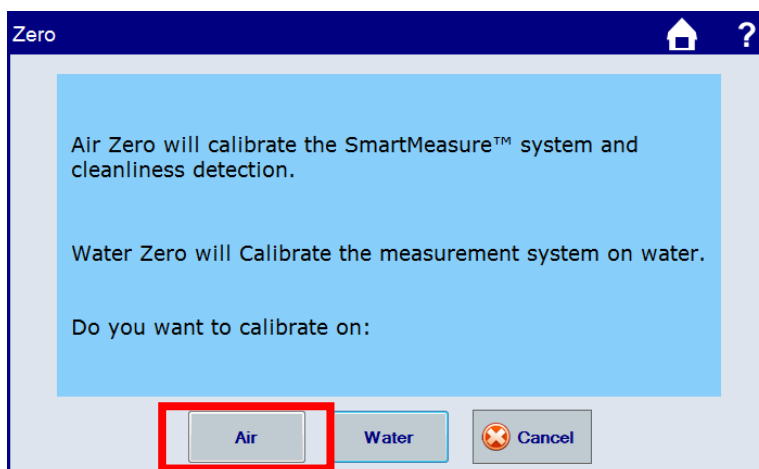
8. You will be asked if you really want to restore. Select YES.



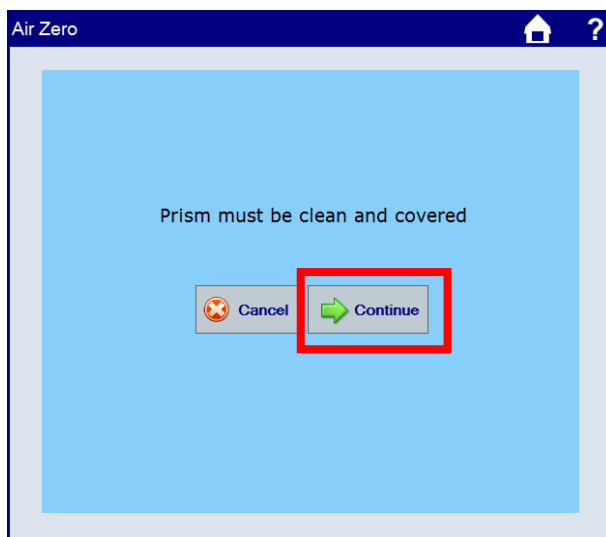
9. Last we will perform a new AIR Calibration. Select ZERO



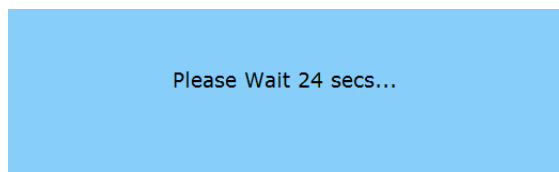
10. Select AIR



11. Make sure the Refractometer Prism is very clean, dry and covered. Press CONTINUE



12. After Pressing continue, the calibration for air will take approximately 25 seconds.



13. Press OK when completed. The factory calibrations will now be completely restored.

