

**FAQ No:** FAQ-OPT-008  
**Title:** OPTi Service ZERO Calibration

### OPTi Service ZERO Calibration

The OPTi instrument has a user ZERO calibration function. This is designed to correct any minor changes in the instrument's calibration.

When a user ZERO calibration is carried out the instrument first takes a measurement and checks that the sample on the prism is water. The instrument expects that the RI should be between 1.33005 and 1.33417, which is what water should read at approximately 43.5°C and 1.5°C respectively. Outside of this the instrument will report an error message “L” or “H”, which means the calibrant is too low or too high.

In most cases the user ZERO calibration will allow the calibration to be corrected. In cases where the calibration error is greater and therefore the water sample reads outside the required specification above; then a *Service ZERO* calibration is available.

The Service ZERO calibration combines a default clean prism calibration and a tolerance free ZERO calibration.

### Service Zero Calibration Procedure

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Remove any sample and ensure that the prism is thoroughly clean.

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Press the READ key to reset the consecutive ZERO counter.

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Press and hold ZERO until “000” is displayed, this indicates that a ZERO calibration has been started. A few seconds later the display will show either “L”, “H” or “000”. This step has to be carried out 10 times.

If ‘OPEN’ is displayed on the 8<sup>th</sup> ZERO, this indicates that the PIN number has been disabled and will require re-entering if required.

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As before press and hold ZERO until “000” is displayed. Once the calibration has finished the display will show “L5L” to indicate that a default calibration has completed.

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Finally apply water and press and hold ZERO until “000” is displayed. Now the display will show “000” indicating that ZERO calibration has been successful.

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