

C125 & C127 SENSOR CALIBRATION & REPLACEMENT QUICK START GUIDE



Calibration Instructions;

Note: Disclaimer of Liability

These instructions are prepared for use by trade professionals familiar with gas analysis and detection, and are familiar or have experience in calibrating gas measurement systems. They are intended to be as complete and simple as possible to eliminate the chance for error. Certain factors related to analyzer field recalibration are beyond the control of UEi, and the user should be aware of these factors such as proper delivery of gas to the analyzer during calibration, the age of the calibration gas, and the accuracy of the calibration gas.

By using these instructions to recalibrate your instrument, you assume all risks and liability associated with the measurement of carbon monoxide (CO) gas concentrations.

Indemnification

To the extent permitted by applicable law, by using these instructions to recalibrate your analyzer, you agree to defend, indemnify, and hold harmless, UEi, its agencies, officers, employees, representatives, and agents from and against all claims and expenses, including attorneys' fees, arising out of the use of this material.

SENSOR REPLACEMENT



1. Tools required to replace the sensor include a standard Phillips screw driver and a source of calibration gas.



2. Remove the protective boot from the instrument.



3. Remove the water trap by sliding down and then away from the housing.



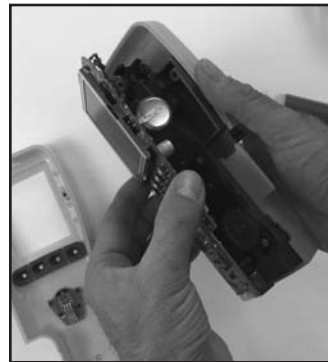
4. Remove the batteries.



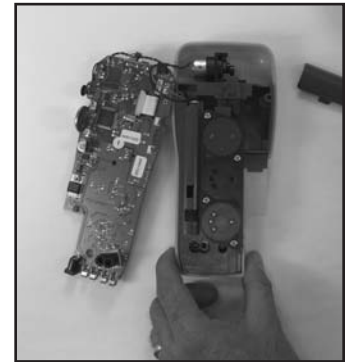
5. Remove the two screws securing the case halves together.



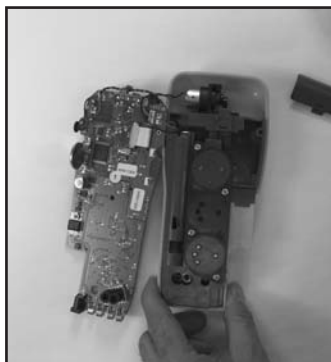
6. Separate the case by gently pressing up on the front housing with pulling the top apart.



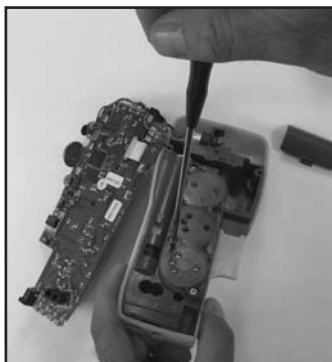
7. Lift the main circuit board up and away from the instrument.



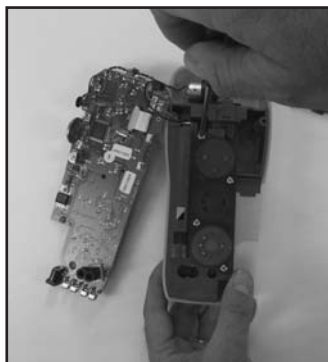
a. Be careful of the wiring harness that powers the pump and connects to the battery compartment.



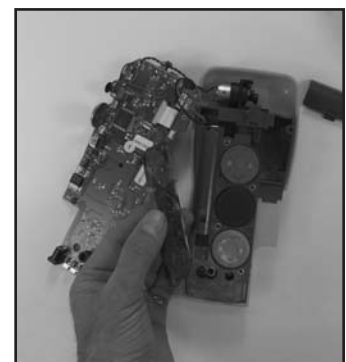
8. Place the instrument on a flat surface with the circuit board positioned as shown.



9. Remove the four screws holding the sensor cover in place.

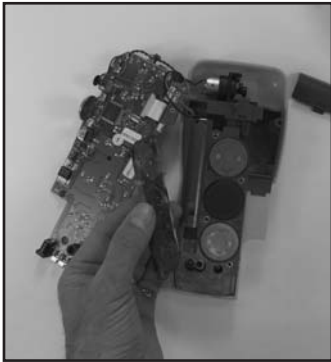


10. Remove the sensor cover.

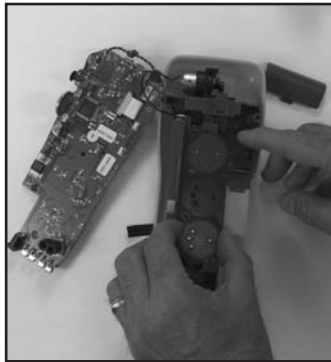


11. Lift the sensor to be replaced out of the manifold.

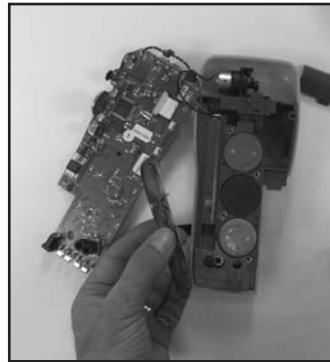
a. Sensor located at the top is O₂, and the bottom position is CO.



b. Note the position of the alignment pin on the O₂ and pin orientation on the CO sensors. These will only fit into the sensor cover in one position.



12. Install the sensor to be replaced.



*13. Reinstall sensor cover.
a. Verify that the sensor cover is seated on the manifold before tightening screws.*



*14. Set circuit board back on manifold.
a. Align sensor pins with sockets on circuit board.*



14. Join case halves together starting at the bottom edge as shown



15. Reinstall case screws

GAS CALIBRATION

It is recommended to allow the sensors to stabilize a minimum of four hours before calibration.



1. Turn instrument on in fresh air and allow to zero.



2. Select "Menu".



3. Scroll to "Service".



4. Enter user code "1234".



5. Select "Cal_CO".



6. Enter gas concentration.



7. Connect Gas.



8. Adjust regulator to match flow of instrument.

a. Floating ball should be in the middle of the second space from the bottom.

b. Note the pitch of the pump. It should match the pitch when drawing in ambient air.



9. Allow to sample gas three minutes.

a. Reading does not indicate ppm value.

b. Slight fluctuation of display is normal.



10. Press "Enter" at the end of 3 minutes.

Note reading is not ppm, and may still fluctuate slightly.



11. Scroll to "Exit" and then press "Enter".

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