



Landtec GEM 2000

Field calibration

- Press 1 Menu
- Use your Up(2) or Down(8) keys to scroll the "Field Calibration" then press Enter in your instrument
- Press 3 Edit target Concentrations
- Enter manually the target concentrations for CH₄
- Press Enter to move to CO₂, Enter CO₂ Target Concentration
- Press Enter to move to O₂, Enter O₂ Target Concentration
- Press Enter to complete.
- Press 1 to Exit. Turn on the pump Attach tedlar bag with calibration gas mixture. Allow the readings to stabilize. Return to the field calibration menu.
- Allow gas to flow for approximately 30 seconds to ensure a complete purge of any gas in instrument
- Press Enter to bring up Calibration Menu
- Choose Zero Channels, Press Enter
- Choose Zero CH₄ Press Enter when done.
- If Calibration was successful you should see the following message "User Zero Complete"
- Connect CAL Gas Bottle With 0% O₂ (example 50% CH₄ 35%CO₂ Bal N₂)
- Allow gas to flow for approximately 30 seconds to ensure a complete purge of any gas in instrument
- Press Enter to bring up Calibration Menu
- Choose Zero Channels press Enter
- Choose Zero O₂ press Enter when done
- If Calibration was successful you should see the following message "User Zero Complete"
- Press Enter to go to Calibration Menu
- Choose Span Channels, Press Enter
- Choose Span CH₄
- Verify that CH₄ Calibration (CAL) Gas is still connected to instrument (Wait 30 seconds for gas to flow thru instrument)
- Press Enter to Set CH₄ Span
- The following message should appear "Calibration Complete"
- Press Enter to go to Calibration Menu
- Choose Span Channels, Press Enter
- Choose Span CO₂
- Verify that CH₄ CAL Gas is still connected to instrument (Wait 30 seconds for gas to flow thru instrument)
- Press Enter to Set CO₂ Span
- The following message should appear "Calibration Complete"
- Connect Gas Bottle With 4% O₂ (example. 0% CH₄ 0% CO₂ 4%O₂)
- Allow gas to flow for approximately 30 seconds to ensure a complete purge of any gas in instrument
- Press Enter to go to Calibration Menu
- Choose Span Channels, Press Enter
- Choose Span O₂
- Press Enter to Set O₂ Span
- "Field Calibration is Complete"
- We suggest filling a tedlar bag with the calibration gas and taking a reading to verify your calibration.