GEM 2000 Calibration Easy Steps

Field Calibration

Turn Instrument On (By pressing on the Red Button).

After the instrument has finished it's initial process, it will enter the Main Screen

Press 1Menu

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 CH_4

Press Enter to move to CO_2, Enter CO_2 Target Concentration

Press Enter to move to O_2, Enter O_2 Target Concentration

Press Enter to complete.

Connect Calibration (CAL) Gas Bottle with 0% CH_4 (example 4% O_2, Bal N_2)

Allow gas to flow for approximately 30 seconds to ensure a compete purge of any gas in instrument

Press Enter to bring up Calibration Menu

Choose Zero Channels, Press Enter

Choose Zero CH_4 Press Enter when done.

If Calibration was successful you should see the following message "User Zero Complete"

Connect CAL Gas Bottle With 0% O_2 (example 50% CH_4 35%CO_2 Bal N_2)

Allow gas to flow for approximately 30 seconds to ensure a compete purge of any gas in instrument

Press Enter to bring up Calibration Menu

Choose Zero Channels press Enter

Choose Zero O_2 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 CH_4

Verify that CH_4 Calibration (CAL) Gas is still connected to instrument (Wait 30 seconds for gas to flow thru instrument)

Press Enter to Set CH_4 Span

The following message should appear "Calibration Complete"

Press Enter to go to Calibration Menu

Choose Span Channels, Press Enter

Choose Span CO_2

Verify that CH_4 CAL Gas is still connected to instrument (Wait 30 seconds for gas to

flow thru instrument)
Press Enter to Set CO_2 Span
The following message should appear "Calibration Complete"

Connect Gas Bottle With 4% O_2 (example. 0% CH_4 0% CO_2 4%O_2)
Allow gas to flow for approximately 30 seconds to ensure a compete purge of any gas in instrument
Press Enter to go to Calibration Menu
Choose Span Channels, Press Enter
Choose Span O_2
Press Enter to Set O_2 Span
"Field Calibration is Complete"

We suggest taking a reading from CAL GAS Bottles in the normal gas readings screen to verify that calibration has been done correctly.

The N/A section on the Calibration Gas Reading Screen is for external Gas pods when attached (example H_2S)

If you have problems with a completed calibration try going to the calibration menu and select factory settings You will receive the message [resetting please waite]

Then do the field calibration again