



DataFID Quick Start Instructions

1. Ensure that the battery for the *DataFID* has been fully charged.
2. Attach the hydrogen cylinder to the left side of the *DataFID* instrument body.
3. Open the hydrogen cylinder valve (rotate counter-clockwise). Wait a few moments for the hydrogen to reach the detector.
4. Turn on the *DataFID* by pressing the ON/OFF key on the top left of the instrument body.
5. The *DataFID* will display the instrument's software version number. Next, the *DataFID* will proceed to the Main menu display.
6. To ignite the hydrogen flame, press the middle soft key "meas."
7. Once the flame is lit, the instrument display will produce readings.



Instrument Display Example

Calibrating the *DataFID* (General)

Before calibration begins, make sure the *DataFID* is turned on and is in measure mode.

To calibrate the *DataFID*:

1. Press both the left and right user keypad buttons together. This will initialize the *DataFID*. Calibration Mode Screen



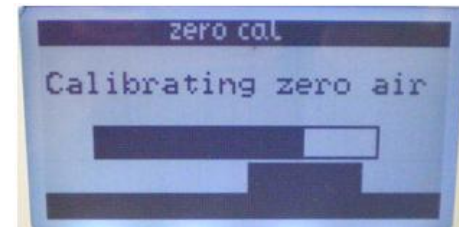
2. Select the desired Calibration Gas. For surface methane monitoring, the typical calibration gas is methane.

3. Connect the supply of zero air and press Next to set the Zero Point for calibration

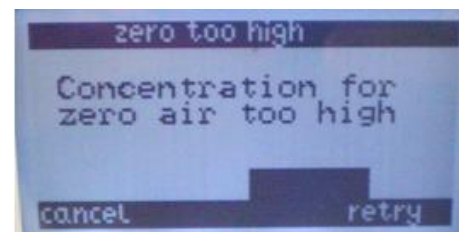


4. If you are using a gas bag with zero air, connect the gas bag adapter to the inlet. Open the bag and press Next and *DataFID* sets its zero point.

5. If you are using ambient air for zeroing, do not connect anything to the *DataFID* inlet.



Should a fault condition arise such as Concentration for Zero Air too high the user will be prompted to Retry the Zero point for calibration again. Users should also look to the Troubleshooting Section to further investigate causes for fault conditions



5. The *DataFID* then asks for the span gas concentration. Enter the known concentration or select New to enter a different span gas concentration and then connect the gas bag adapter to the inlet.



Selecting New will prompt the user to reset the digits for the span gas value. The left and center keys will change the corresponding values up or down while the right key will move the place holder over to the right. If the place holder moves too far to the right, press the right arrow key until the cursor moves back to the left to edit changes. Once the selection has been edited, select the trigger button to accept the changes and continue to the Span segment of calibration.

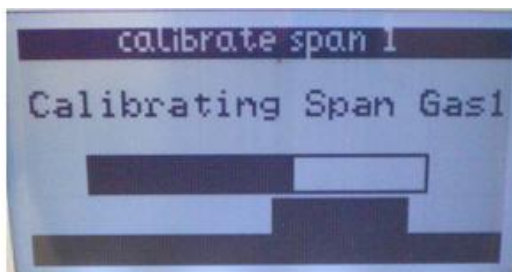


6. Open the span gas (bag/regulator) and press Next



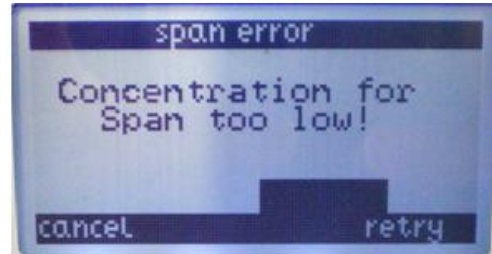
7. The unit will now begin setting its sensitivity to the entered calibration span value.

NOTE: Readings may fluctuate slightly as the gas bag empties. Do not allow the DataFID to evacuate the bag completely.

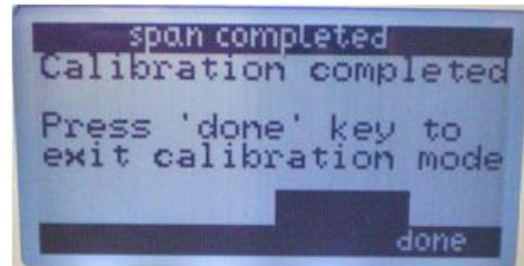


Should a fault condition arise such as Concentration for Span Too Low the user will be prompted to Retry the Span point for calibration again. Users should also look

to the Troubleshooting Section to further investigate causes for fault conditions



8. When the *DataFID* has completed the calibration cycle the user will be prompted to select Done.



9. The *DataFID* is now calibrated and ready for use. Remove the span gas bag or regulator from the inlet.

Note: Calibration does not bring a user into the Run Mode automatically. After pressing the 'done' soft key, the user is returned to the screen that was displayed before performing the calibration.

Example: If the user is in the User Mode screen while editing an Interval timing and the unit flames out, all you simply need to do is press the 2 Cal keys, invoke the calibration cycle and, upon completion of calibration, the unit will revert to the User Mode edit Interval timing screen again.

If the user wishes to go into the Run mode screen at any time, all you need to do is select 'meas' and the Run Mode screen will appear.