Standard Operating Guideline (SOG)

Drager X-am Calibration Procedure

CAUTION:

PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED TO BE WORN DURING THIS SOG:

THIS SOP APPLIES TO THE FOLLOWING DEPARTMENTS (Check all that apply):

- ☐ Public Works
- ☑ Fire
- ☐ Daycare
- ☐ Administration
- ☐ Facilities
- ☐ Recreation

The station Safety Officer will be responsible for calibrating the Gas Monitor one every three months. The calibration equipment can be found in Station 4.

The software on the computer is already set to the appropriate levels and will automatically download those settings onto the device.

A1 alarm is the lower level alarm of dangerous concentrations and can be deactivated by pressing the OK button.

A2 alarm is the higher level alarm and can't be deactivated without removing the device from the affected atmosphere.

Before using the device at a scene make sure to do a fresh air calibration by pressing the + button three times and then pressing the OK button.

Make sure the device is not exposed to any gasses such as exhaust fumes while preforming a fresh air calibration.

Turn on the device: Hold the OK button for three seconds.

Turn off the device:Press the OK and + keys at the same time and hold for three seconds.

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Span Calibration Procedure

1. Turn on the device. Hold the OK button for three seconds.

2. Wait for 3-5 minutes for the warning symbol to disappear from the device screen before calibrating. The symbol won't disappear if the calibration is overdue. (Image 1)

3. Do a fresh air zero calibration outside. Press the + button three times and then press the OK button.

4. Open the program on the computer: Drager CC - Vision Basic.

5. Connect the calibration cradle to the computer and prepare the calibration gas.

6. Press the "recieve data from X-am 2000" button. (Image 2). A new interface will appear.

7. Match the Span settings to the levels indicated on the cylinder. (Image 3)

8. Download Data. (Image 4)

9. Conduct a fresh air zero calibration while connected to the cradle.

10. Calibrate the sensors. Select Zero Calibration. Select Multiple Gas Mixture. Select the gasses Ex, H2S, CO. (Image 5)

11. Press start to begin the calibration.(Image 6)

12. Do Span Calibration. Select Span Calibration in the left side menu. Before starting the calibration ensure that the gas levels in the table match those on the bottle. Press Start. The program will indicate to turn the gas bottle on. Connect the bottle to the cradle using the hose and open the valve. (Image 7)
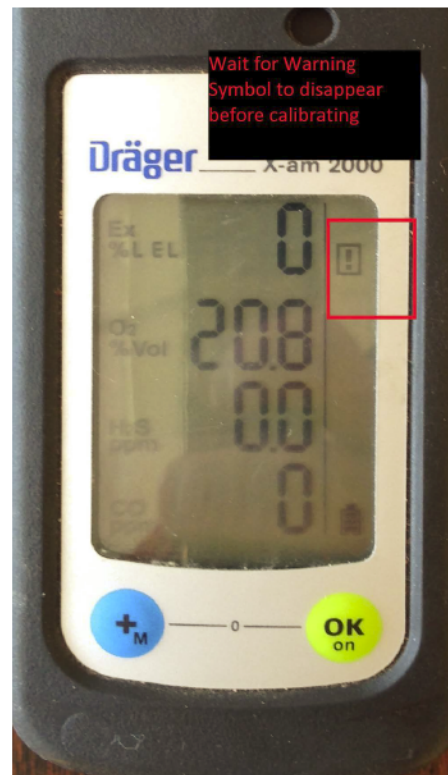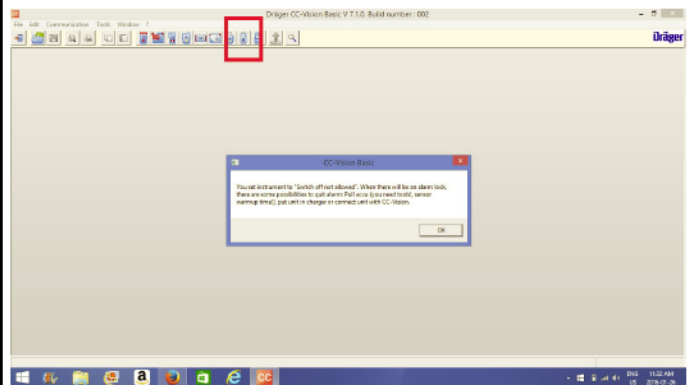
Image 1

Image 2

Standard Operating Guideline (SOG)
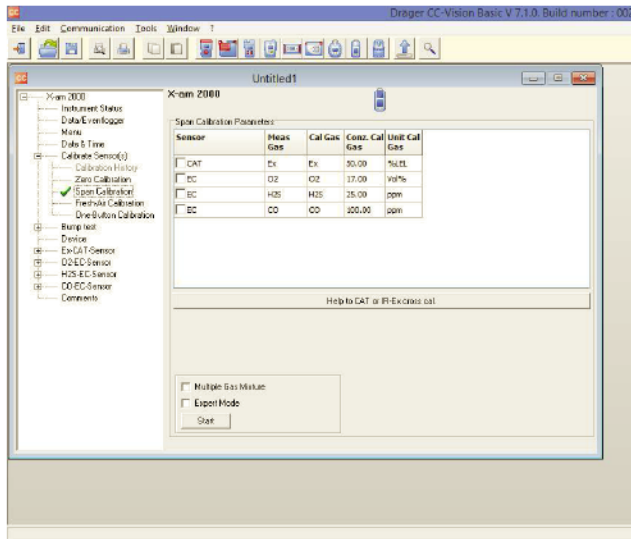
Drager X-am Calibration Procedure

Image 3

Image 4

Image 5

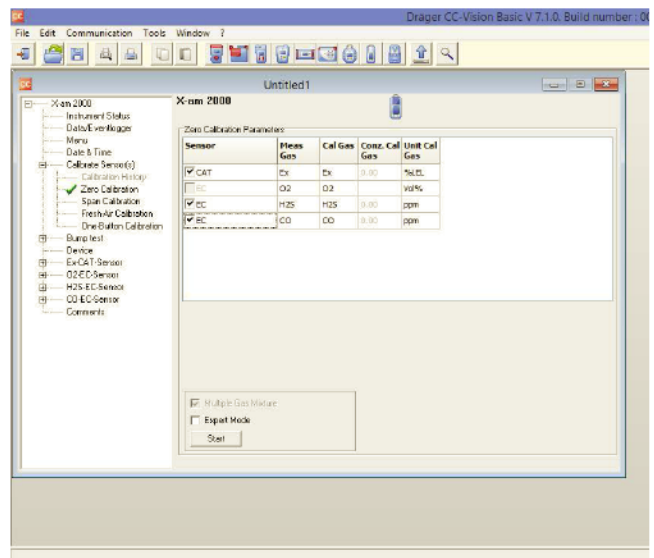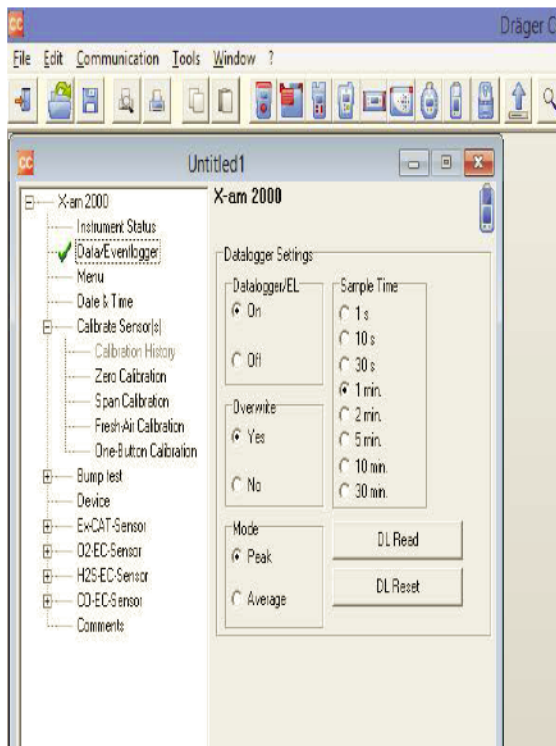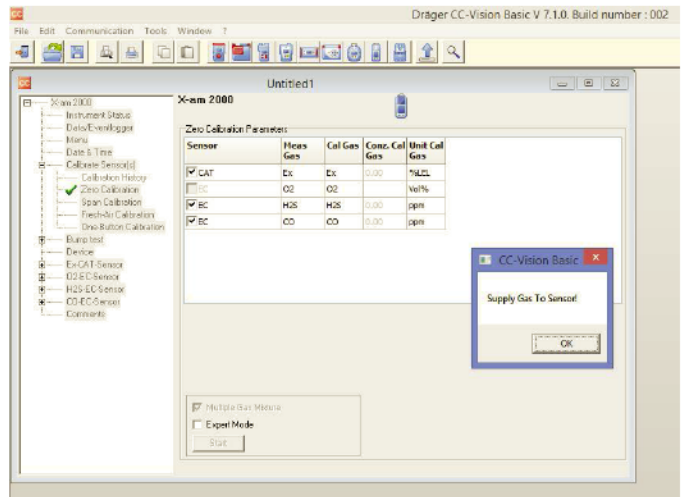## Image 6

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13. Watch the graph for 60 seconds. When the gas levels have reached a level that they are maintaining - click the checkbox beside that gas. When all gasses have been check click the "Perform Calibration" button. (Image 8)

14. Turn the gas off. Disconnect the device when the program idicates it is safe to do so.

15. Save the data and disconect the device. When saving the data add the date to the front of the file name in the following format yyyymmdd. For example: March 7, 2016 would be 20160307.
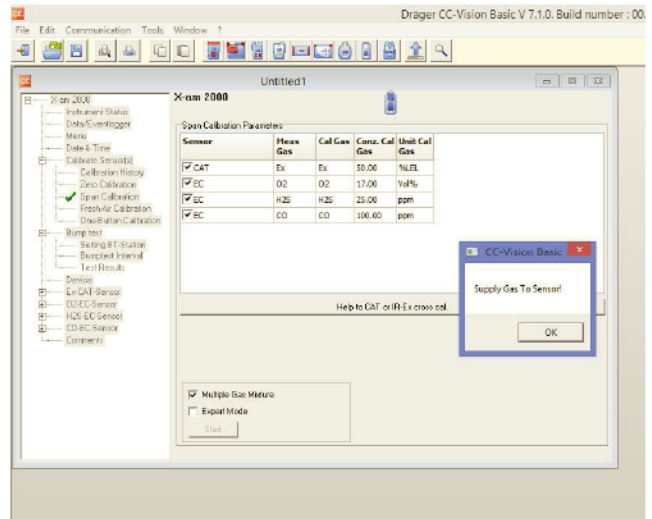
Image 7

Image 8