

23 Gas Meters

23.1 Introduction

23.1.1 There are currently ten gas meters that are being used by the South Wall Fire Rescue Co. No. 1. The ten meters are the RKI Instruments Eagle, the Scott Proton, the Drager X-am 2000 and the Drager Pak 3500. Each engine is equipped with one Eagle, one X-am 2000, and one Pak 3500. The Rescue is equipped with one X-am 2000 and Proton. Each Chief's vehicle is equipped with one Proton.

23.1.2 The Eagle and X-am 2000 Gas Meters have the capability of analyzing the environment for Oxygen (O₂), Carbon Monoxide (CO), Hydrogen Sulfide (H₂S) and Methane (CH₄). The Proton and Pak 3500 meters are for Carbon Monoxide only.

23.1.3 All of the meters take alkaline batteries that need to be checked and replaced on a regular basis.

23.2 Gas Meter Use

23.2.1 The gas meters will be deployed at all Carbon Monoxide incidents and when the IC deems necessary. The gas meter can be used during incidents when Natural Gas is suspected.

23.2.2 When using the gas meter, firefighters will refrain from advising the public the exact percentage of concentrate in the air. The public will only be advised that the readings were ok, or acceptable.

23.3 Eagle Gas Meter Operation

23.3.1 When the meter has been requested at an incident, a firefighter will remove the meter from the apparatus compartment. The firefighter will then press the
POWER/ENTER
button on the top of the meter. This button will turn the meter on. The firefighter must ensure that the meter has been turned on in an un-contaminated environment.

23.3.2 The firefighter will allow the meter to complete
it's
self diagnosis and calibration in the clean environment.

Once the meter has completed it's self check and is operating properly, the firefighter may enter the hazardous area.

23.3.3 During the sampling, the firefighter will monitor the display of the meter for any abnormal readings. When a reading has become too high and is dangerous for the occupants, the meter will begin to beep. This is a default setting for the meter to warn all personnel of the dangerous environment. The meter is already outfitted with a sampling hose and wand.

23.3.4 When the entire facility, or area directed by the IC has been checked, the firefighter will report to the IC or sector officer to report the results.

23.3.5 Upon termination of the incident, the meter will be shut down by pressing the POWER/ENTER button and wait for the unit to cycle down. The gas meter will now be placed back on the apparatus.

23.4 X-am 2000 Gas Meter Operation

23.4.1 When the meter has been requested at an incident, a firefighter will remove the meter from the apparatus compartment. To turn the unit on, press the OK button and hold for three seconds. The firefighter must ensure that the meter has been turned on in an uncontaminated environment.

23.4.2 The firefighter will allow the meter to complete its self diagnosis and calibration in the clean environment. Once the meter has completed it's self check and is operating properly, the firefighter may enter the hazardous area.

23.4.3 During the sampling, the firefighter will monitor the display of the meter for any abnormal readings. When a reading has become too high and is dangerous for the occupants, the meter will begin to beep. This is a default setting for the meter to warn all personnel of the

dangerous
environment.

23.4.4 When the entire facility, or area directed by the IC has been checked, the firefighter will report to the IC or sector officer to report the results.

23.4.5 Upon termination of the incident, the meter will be shut down by pressing the OK and (+) buttons and wait for the unit to cycle down. The gas meter will now be placed back on the apparatus.

23.5 Proton Gas Meter Operation

23.5.1 When this meter has been requested at an incident, a firefighter will remove the meter from the apparatus compartment. The meter will then be removed from its case. The firefighter will then press the POWER button on meter. The firefighter must ensure that the meter has been turned on in an un-contaminated environment.

23.5.2 The firefighter will allow the meter to complete its self diagnosis and calibration in the clean environment. Once the meter has completed its self check and is operating properly, the firefighter may enter the hazardous area.

23.5.3 During the sampling, the firefighter will monitor the display of the meter for any abnormal readings. When a reading has become too high and is dangerous for the occupants, the meter will begin to beep. This is a default setting for the meter to warn all personnel of the dangerous environment. There are assorted sampling adapters in the case for testing in different atmospheres, tanks, etc...

23.5.4 When the entire facility, or area directed by the IC has been checked, the firefighter will report to the IC or sector officer to report the results.

23.5.5 Upon termination of the incident, the meter will be shut down by depressing the power button and allowing the meter to cycle down.

23.6 X-am 2000 Gas Meter Operation

23.6.1 When the meter has been requested at an incident, a firefighter will remove the meter from the apparatus compartment. To turn the unit on, press the OK button and hold for three seconds. The firefighter must ensure that the meter has been turned on in an uncontaminated environment.

23.6.2 The firefighter will allow the meter to complete its self diagnosis and calibration in the clean environment. Once the meter has completed its self check and is operating properly, the firefighter may enter the hazardous area.

23.6.3 During the sampling, the firefighter will monitor the display of the meter for any abnormal readings. When a reading has become too high and is dangerous for the occupants, the meter will begin to beep. This is a default setting for the meter to warn all personnel of the dangerous environment.

23.6.4 When the entire facility, or area directed by the IC has been checked, the firefighter will report to the IC or sector officer to report the results.

23.6.5 Upon termination of the incident, the meter will be shut down by pressing the OK and (+) buttons and wait for the unit to cycle down. The gas meter will now be placed back on the apparatus.

23.7 Maintenance

23.7.1 The gas meters will be operated on a regular basis to ensure that the self diagnosis and calibration is still accurate and to ensure that the batteries are still operating.