



Operation & Maintenance of Chlorine Gas Sensors

Operation

- ☐ The amber “Power On” light means there is power supplied to the unit
- ☐ The chlorine gas sensor is in ready mode when the green LED is illuminated; depending on the type of sensor, it may be a blinking green light
- ☐ The main menu screen will display measured values of detected chlorine gas
- ☐ If an alarm condition occurs the red alarm LED will illuminate, the audible alarm should be activated and the ventilation system should engage - pressing the clear/acknowledge key will silence the alarm
- ☐ Once the chlorine gas dissipates, the user can then reset the chlorine gas sensor by pressing the clear/acknowledge key, and the unit will return to normal operational mode

Note: The system will not reset until the alarm condition has been corrected and the clear/acknowledge key has been pressed

Note: Check manual for specific operational details for your Chlorine Gas Sensor

Maintenance

- ☐ Staff must wear suitable PPE which may include, but is not limited to, safety gloves, full-faced chemical cartridge respirator, SCBA, and/or suitable clothing
- ☐ It is recommended that chlorine gas sensors be exposed to a small amount of measured gas in order to test the reaction time of the sensor – usually performed on a weekly or monthly basis (check manufacturer’s instructions)
 - ☐ To prepare the measured gas mix one part vinegar and one part household Javex in a small plastic bottle – **caution: this creates chlorine gas**
 - ☐ Place the plastic bottle under the sensor and squeeze the bottle once or twice to release vapour; this should activate the alarm
 - ☐ If alarm does not activate, the sensor may need to be replaced or calibrated
 - ☐ Repeat test on all sensors in the chlorine gas facility
 - ☐ Once all tests are completed, discard contents of plastic bottle, cap bottle and label as “Danger – Chlorine Gas”
- ☐ It is recommended that calibration be carried out every 6 months. Be sure there is a sensor cap for these periodic calibrations. Refer to manufacturer’s calibration instructions.
- ☐ Sensor lifetime is determined by many factors including heat, humidity, dirt, and cumulative gas exposure – sensors last 1 to 2 years under normal operating conditions

Note: If a chlorine gas sensor is determined to be non-operational, it must be replaced immediately