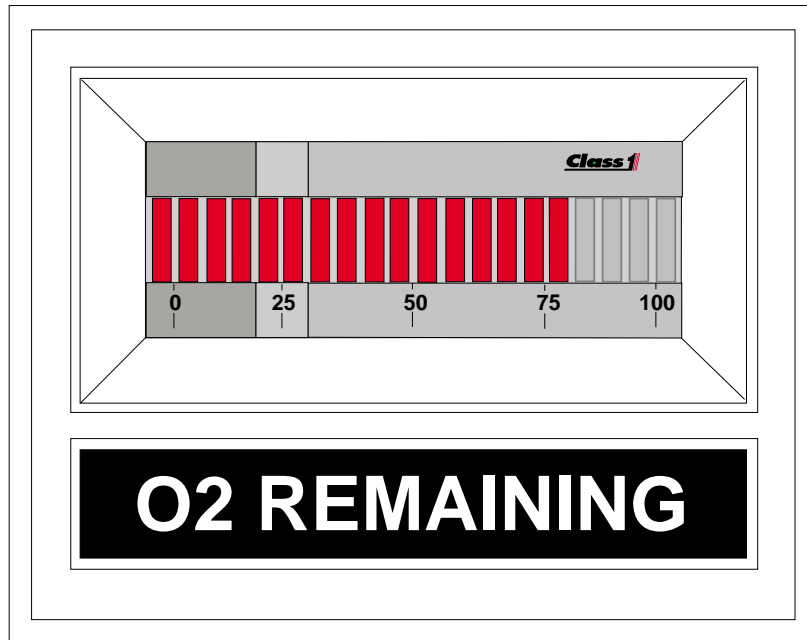


Name	Digital Oxygen Remaining System
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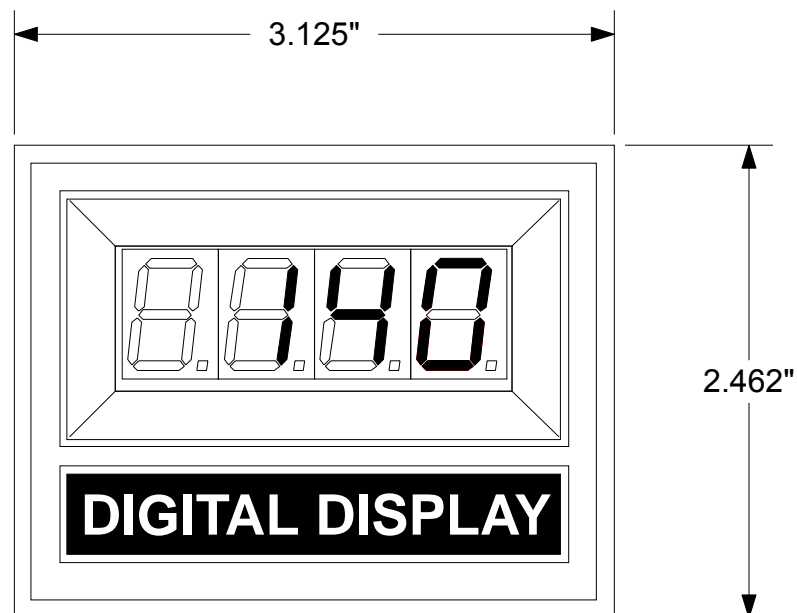
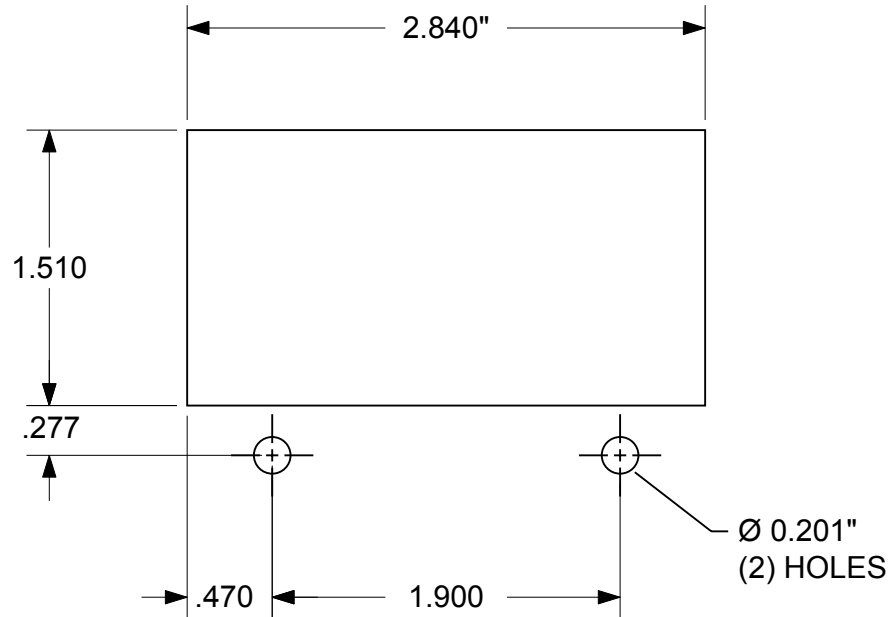


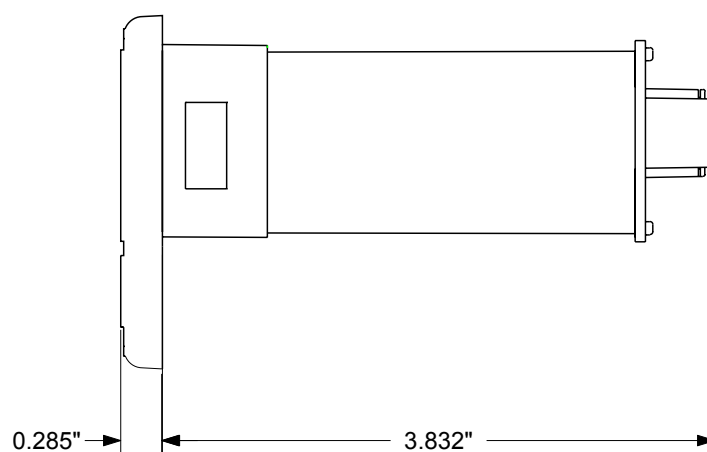
The **Class1** Oxygen Remaining Display is designed to provide operators with a visual indication of Oxygen remaining and an audible warning when there is less than 20% oxygen remaining. The audible warning is inactive whenever the pressure is below 50 PSI so that it will not sound when the supply is turned off.

The display represents oxygen volume information in an easy to interpret LED bargraph display as a percentage of maximum calibrated pressure. The display includes a visual warning and an auxiliary warning alarm output.

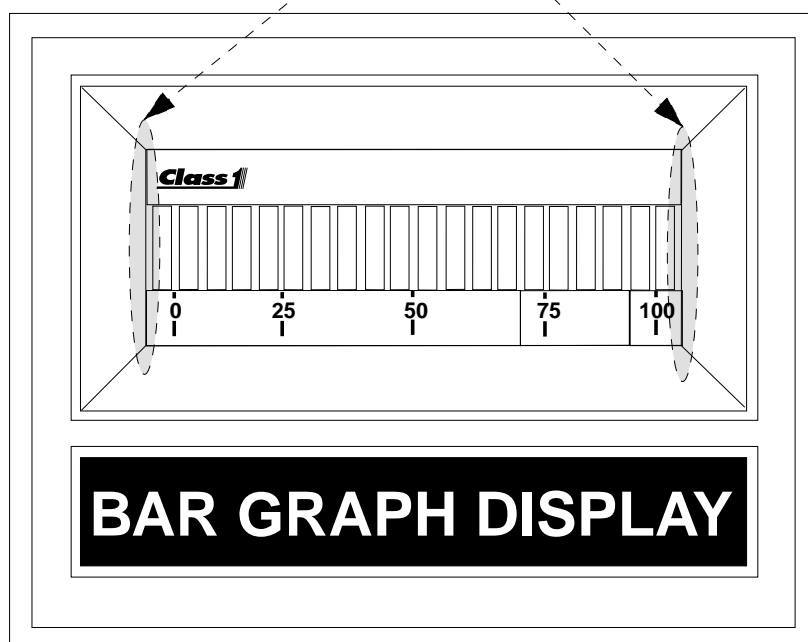
When the relative volume of oxygen remaining reaches 25%, the bars will begin to flash, and when the system pressure drops to 20%, the auxiliary output will turn on. The alarm can be silenced with an alarm silence switch. Once the alarm is silenced, it will remain silent until the unit is turned off and then back on, and will reset whenever the volume of air exceeds 20%. When the alarm is silenced, there will be an alert chirp every fifteen (15) minutes to remind the operator that the oxygen supply is low.

The **Class 1** digital display mounts in a 2.85" by 1.55" cutout.  
Overall area necessary for installation is 2.5" by 3.2".  
Two 0.20 diameter holes are provided for mounting screws.





Location of magnetic switches



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### Display Calibration for Gauges with bargraph displays

The calibration mode is entered by the use of a “password”.

There are two magnetic switches, one located at each side of the display.

These switches are activated with the use of a magnet.

Switch activation is visually confirmed by the toggling of the four closest bars on the display to the switch. If they are on they will turn off, if they are off they will turn on.

If the password is correctly entered, the leftmost bar will turn on and flash. This indicates that the display is ready to be calibrated for the low set point.

With the system adjusted to the minimum calibration point (the system should be empty or at the lowest pressure condition) activate the left switch and then the right switch.

The rightmost bar will begin to flash, indicating the display is ready for the high set point calibration.

Adjust the system to its maximum operating condition. Activate the right switch followed by the left switch.

The display will return to normal operation and indicate current system status as a percentage of maximum capacity.

### Calibration for Breathing Oxygen Gauge installations:

Empty Cylinder (Closed Valve)

With the oxygen bottle closed and the system purged, enter the calibration password.

**L L L R R R**

The left (0%) bar will flash to indicate that you are ready to calibrate for an empty system.

Activate the left switch followed by the right switch.

The right (100%) bar will flash to indicate that the display is ready to calibrate for a full system.

Maximum Volume

With a full oxygen bottle and the system pressurized, actuate the right switch and then the left switch.

**Calibration is complete.**

**NOTE:** *Calibration should be accomplished using an oxygen cylinder filled to the locally established maximum pressure.*

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All of the digital displays have a built in lamp test feature.

The password to activate this function is    **L L R L L.**

When activated, all segments on the display LED's will illuminate for a few seconds and then return to normal operation.

The digital displays that utilize a pressure sensor have a sensor check feature.

The password to activate this function is    **L R R L R R.**

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## Wiring Diagram for the Digital Oxygen Remaining Gauge.

