

# QUADRANT SERIES QUICK MANUAL

## Charging

The instrument is supplied with a wall plug power supply and a charging base. To charge the instrument, plug the power supply into the wall and its other connector into the back of the charging base. Drop the instrument into the base (note instrument contour and base contour). The instrument is fully charged after about 4 hours. When the instrument is removed from the charger it will do an auto-zero (set gas readings to 0, oxygen to 20.9).

## Operation

The instrument is turned on by pressing and releasing the **ON/OFF** button. Upon power up, the instrument goes through an internal test that takes about 30 seconds. After which the display cycles through the concentrations of each gas. There is a confidence chirp that activates about once every 60 seconds. To turn the instrument off, press the **ON/OFF** button for about three seconds.

## Backlight

The backlight is activated by pressing the **Enter/Backlight** button. It activates momentarily unless the operation menu is entered, after which it stays on for two minutes.

## Alarms

The instrument has audio and visual alarms. The audio alarm activates under any alarm condition. Fault alarms are steady tones. Gas alarms are intermittent. There are two general alarm LEDs on either side of the LCD. Each sensor has its own alarm LED below the LCD. For example, if an oxygen alarm occurs, the general alarm LEDs activate as well as the oxygen sensor alarm LED.

The instrument display shows the peak value (or minimum, in the case of oxygen deficiency) during any alarm condition, **until the Enter/Backlight button is pressed.**

Alarms are acknowledged by pressing the **Enter/Backlight** button. Activating this button silences the audio alarm and allows viewing of the current gas concentrations, while the visual alarm continues.

## Operation Menu

Pressing the **+** button allows the user to view battery information, date and time, STEL and TWA values. It also provides the entrance to the maintenance menu which should be accessed only by personnel performing calibration or maintenance functions. Press the **Enter/Backlight** button anywhere in the Operation Menu to get back to the normal operational display (gas concentrations).

## Auto-Zero

Auto-Zero or Auto-Set is a feature which allows the user to set the display to read 0 ppm and %LEL for the toxic and combustible sensors, and 20.9% for the oxygen sensor. **It should only be performed in a fresh-air environment!!!** It is done automatically when the instrument is removed from the charging base. It can also be accomplished by entering the maintenance menu after the instrument has been on for 10 minutes.

## Combustible Display

The instrument's combustible display can be set to any one of 25 pre-programmed gases and vapors. This is accomplished by starting with the instrument turned off, pressing the **+** key and then simultaneously pressing the **ON/OFF** key and releasing them both. The display reads the currently programmed combustible gas and can be cycled through the entire list by pressing the **+** key over and over again. When the desired gas is displayed, press the **Enter/Backlight** key. **NOTE: The combustible sensor is non-specific and does not have the ability to distinguish or be selective for a particular gas. Correct use of the instrument depends upon the user's knowledge of the application to identify which combustible gas to display.**