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If you require assistance in obtaining access to the presentations, call the Public Affairs Office at (916) 341-6300 or Dennis Corcoran at (916) 341-6395.

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Prepared by:
The Health and Safety Program
California Integrated Waste Management Board

CLASS OBJECTIVES

- Review operation of air monitoring instruments
- Interpret readings for protection of Health and Safety
- Practice using the air monitoring instrument

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ON/OFF

- On
 - Press and “hold” the “enter” button for 5 seconds
 - “Release”
- Off
 - Press and “hold” the “enter” button
 - “Release” when you see the words “Good-Bye”

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FOUR MODES OF OPERATION

- SET UP MODE
 - Battery type
 - Gas combinations
 - %LEL or %VOL
 - Alarm points

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SENSORS

- Combustible gas - (% and ppm)
- Oxygen - O₂ (%)
- Hydrogen sulfide - H₂S (ppm)
- Carbon monoxide - CO (ppm)

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FOUR MODES OF OPERATION

- Set up
- Normal
- Display
- Calibration-will not be discussed

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FOUR MODES OF OPERATION

- SET UP MODE
 - Eagle should be turned off
 - Press and hold the up and down buttons and simultaneously press the enter button
 - Main menu will display

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FOUR MODES OF OPERATION

- SET UP MODE – *Battery Type*
 - If selecting battery type hit enter button
 - Use up and down buttons to select between alkaline and Nicad
 - Make selection
 - Hit enter button to return to set up menu

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FOUR MODES OF OPERATION

- SET UP MODE – *Gas Combinations*
 - Target Gas Label
 - Set Custom Gas Label
 - Full Scale PPM Setting

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FOUR MODES OF OPERATION

- SET UP MODE – *Gas Combinations*
 - Use up and down buttons to select channel to be updated
 - Hit enter button and target gas flashes
 - Use up and down buttons to display available target gas labels

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FOUR MODES OF OPERATION

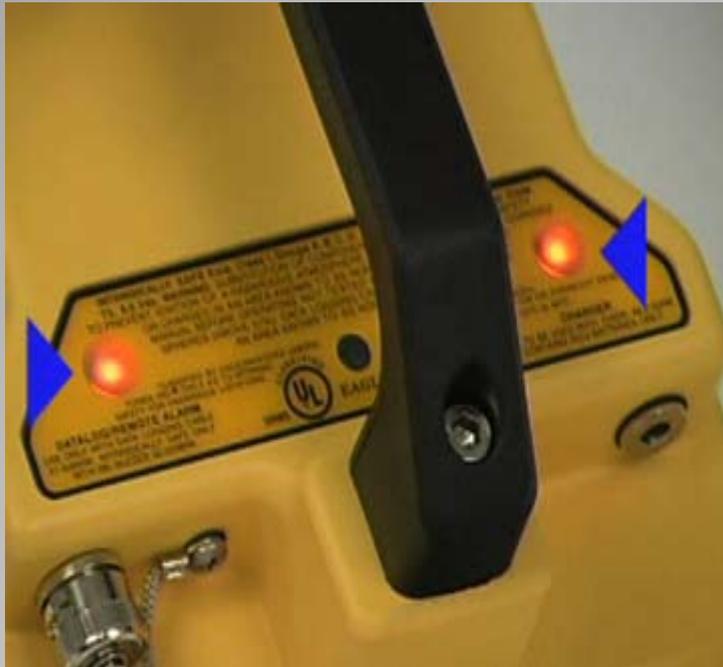
- SET UP MODE – *Gas Combinations continued*
 - Hit enter to display new target gas label
 - Display will show full scale PPM setting
 - Hit enter to return to gas combination menu
 - Use down arrow until prompt is at channel four
 - Once prompt is on escape display hit enter

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WARNINGS AND ALARMS

- Audible and Visual Alarms
 - Over range
 - Low flow
 - Low battery
 - Sensor failure

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Low Flow Alarm



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WARNINGS AND ALARMS

- Alarm: Pulse tone and LED lights flash
- Over Range reading: Pulse tone and lights flash
- Low Flow alarm: Steady tone, lights stay on and pump shuts off. Push the reset button once blockage is removed to continue
- Low Battery: Steady tone, lights stay on and letters BATT flash on left side of display screen. Not operational as gas monitoring device
- Sensor Fail: Pulse tone and lights flash

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ALARMS

- Exceed low alarm limit
- Exceed high alarm limit:
- Exceed TWA/STEL limit:
- Pump failure:

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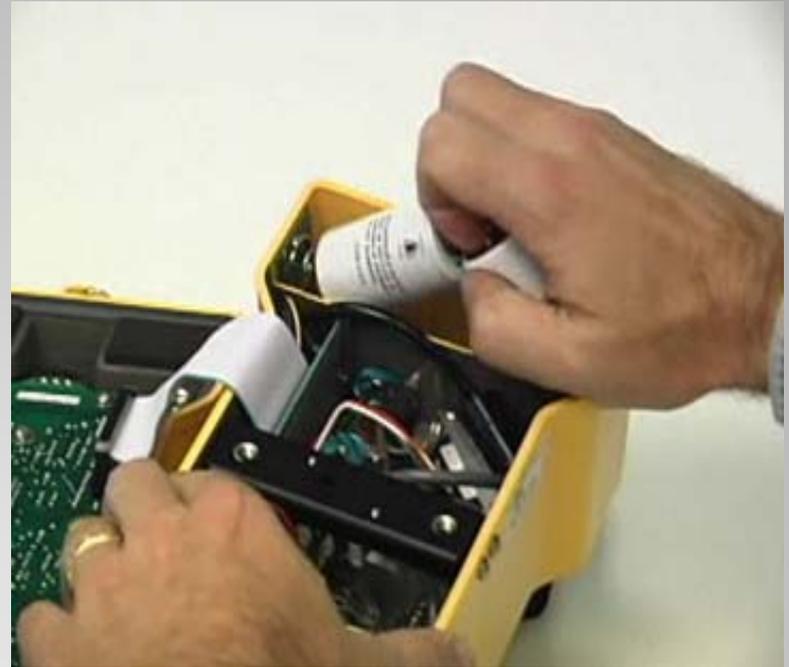


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REPLACE BATTERIES

- Turn off Eagle
- Unscrew two large screws
- Lift up top of Eagle case
- Remove batteries
- Is battery compartment clean?

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LANDFILL GAS CHARACTERISTICS

- Specific density: ~1 (same as air)
- Temperature: Ambient to 120°F
- Moisture content: Saturated
- Btu content: 400-580 cu/ft³

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LANDFILL GAS

- Methane 38% to 58%
- Carbon Dioxide 30% to 48%
- Nitrogen 2% to 10%
- Oxygen 0.2% to 1%
- Hydrogen 0% to 1%
- Trace Gases 0% to 1%
 - (H₂O, H₂S, CO, NH₃, Benzene, Toluene, VC, MeCl, TCE, PCE)

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QUESTIONS

- Thank you for coming. Please fill out your session evaluation.

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