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Sensorcon AV8-CO-01

Sensorcon AV8 Inspector Portable Carbon Monoxide Detector User Manual

Model: AV8-CO-01

1. Introduction and Overview

The Sensorcon AV8 Inspector is a professional-grade portable carbon monoxide (CO) detector engineered for precision and reliability in demanding environments, particularly aviation. This device provides accurate, real-time CO readings in parts per million (ppm) and features both visual and audio alarms to alert users to dangerous CO levels. Its robust design ensures dependable performance and a long service life.



Figure 1: Sensorcon AV8 Inspector CO Monitor and Packaging

The image displays the Sensorcon AV8 Inspector Carbon Monoxide Detector alongside its product packaging. The device is compact, black, and features a blue faceplate with a digital display showing '0 PPM'. Buttons for 'MUTE' and 'MAX' are visible. The packaging highlights key features such as 'Shock Resistant', 'Visual Alarm', and 'Audio Alarm'.

2. Key Features

- **Aviation-Grade CO Detection:** Utilizes advanced electrochemical sensors and embedded software for accurate, real-time carbon monoxide readings.
- **Dual Alarm Alerts:** Factory-set to NIOSH thresholds, visual LEDs and an 80–85 dB audible alarm activate at 35 ppm (low) and 200 ppm (high) to warn of dangerous CO levels.
- **Hands-Free Use:** Compact and lightweight, includes a rugged steel clip and lanyard loop for convenient attachment to flight bags, uniforms, or cockpit interiors.
- **Extended Battery Performance:** Powered by a Panasonic CR123A battery, providing over 2 years of continuous operation under normal conditions.
- **Durable & Field-Ready Build:** Features a compact, shock-resistant, and IP67-rated water-resistant housing, suitable for tough aviation environments.



Figure 2: Durability and Alarm Features

This image shows the Sensorcon AV8 Inspector CO monitor in a cockpit setting, emphasizing its suitability for aviation. Icons around the device highlight its key features: Audio Alarm, Visual Alarm, Shock Resistant, Water Resistant (IP67), and UL Certified. The text 'DURABLE NOT DISPOSABLE' reinforces its robust construction.

3. Package Contents

Upon opening your Sensorcon Inspector CO Monitor package, please verify that all components are present:

- Protective carrying case
- Sensorcon Inspector CO Monitor (AV8-CO-01)
- Hand-aspiration pump
- Tubing
- Panasonic CR123A battery (pre-installed or included separately)

▶ **Watch video online**

Sensorcon Inspector CO Monitor Showcase

Video 1: Sensorcon Inspector CO Monitor Showcase

This video provides an overview of the Sensorcon Inspector CO Monitor series, including the AV8 Inspector. It demonstrates the protective carrying case, the monitor itself, the hand-aspiration pump, and tubing, highlighting the versatility and accessories available to support various professional requirements and needs. It also shows the device's rugged design and electrochemical sensors for precise measurements.

4. Setup

1. **Battery Installation:** The Sensorcon AV8 Inspector uses one Panasonic CR123A battery. If not pre-installed, open the battery compartment on the back of the device and insert the battery, ensuring correct polarity. Close the compartment securely.
2. **Initial Power-On:** Press and hold the **Power/MUTE** button until the display illuminates and shows a reading. The device will typically display '0 PPM' in fresh air.
3. **Attachment:** Utilize the integrated rugged steel clip on the back of the device or the lanyard loop at the top for hands-free attachment to clothing, equipment, or cockpit fixtures.

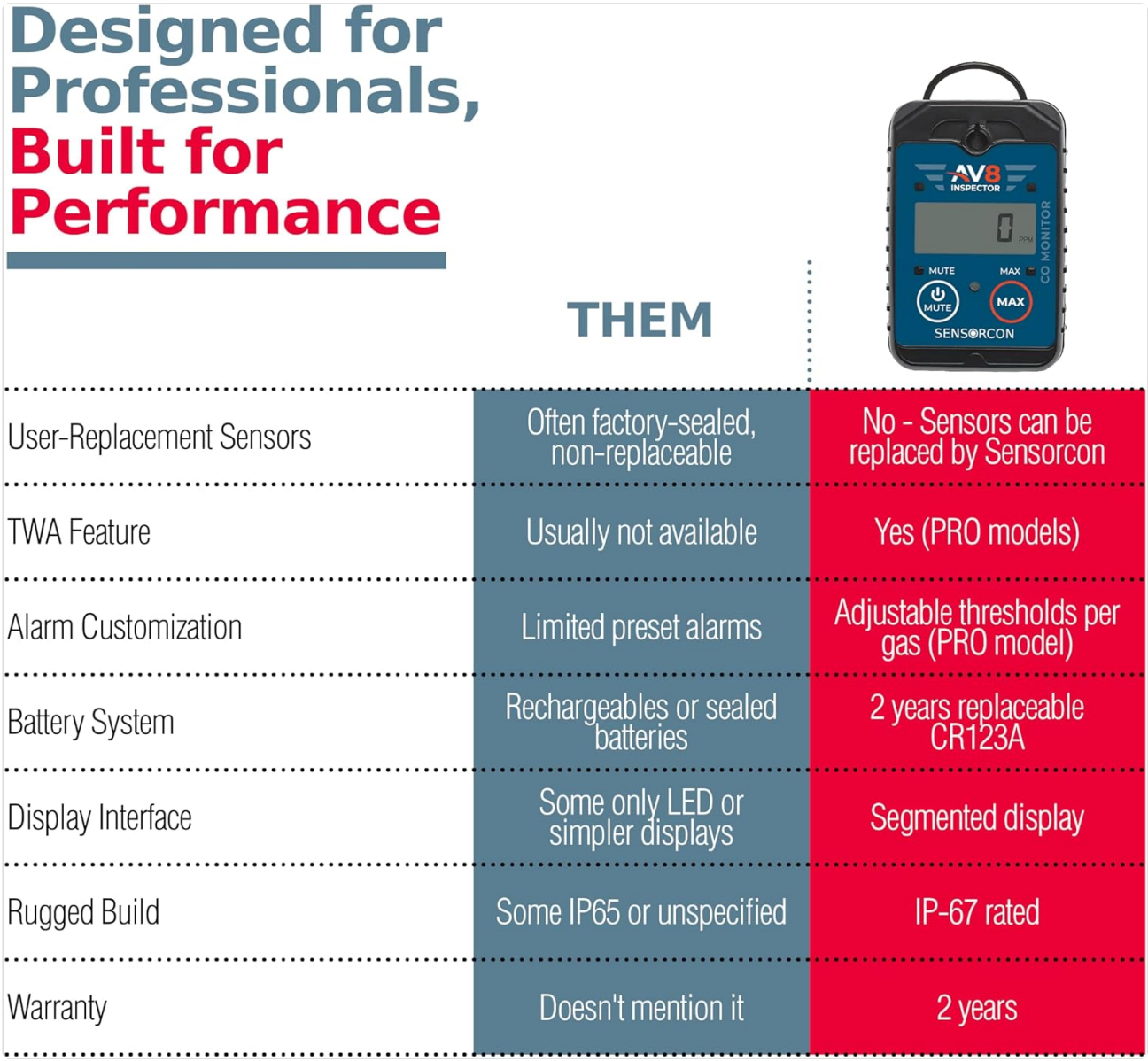


Figure 3: Front View and Controls

This image provides a clear front view of the Sensorcon AV8 Inspector CO monitor, highlighting its main controls. The LCD display shows '0 PPM'. Below the display are two prominent buttons: a circular 'MUTE' button with a power icon, and a larger circular 'MAX' button. These are the primary user interaction points for the device.

5. Operating Instructions

- **Real-Time Monitoring:** Once powered on, the device continuously monitors carbon monoxide levels in the surrounding air and displays the concentration in parts per million (PPM) on the LCD screen.
- **MAX Reading:** Press the **MAX** button to view the peak CO concentration detected since the last reset. Pressing it again will return to the real-time reading.
- **Alarm Activation:** The device will trigger visual LED alerts and an audible alarm when CO levels reach or exceed the factory-set thresholds (35 ppm for low alarm, 200 ppm for high alarm).
- **Muting Alarms:** To temporarily silence the audible alarm, press the **MUTE** button. The visual alarm will continue to flash as long as CO levels remain elevated.
- **Using the Hand-Aspiration Pump:** For sampling air from specific locations (e.g., exhaust vents, confined spaces), attach the tubing to the device's inlet and the hand-aspiration pump to the other end of the tubing. Squeeze the pump bulb to draw air through the sensor.

6. Safety Information: Carbon Monoxide Exposure Risks

Carbon monoxide (CO) is a colorless, odorless, and tasteless gas that can be deadly. Understanding exposure risks is crucial for safety.

CO Concentration (PPM)	Exposure Time & Effects
0-25 PPM	Normal fresh air to Max TWA Exposure for an 8-hour work-day. Generally safe for prolonged exposure.
100-400 PPM	From slight headache after 1-2 hours to life-threatening in and around 3 hours. Symptoms include headache, nausea, dizziness.
800-1600 PPM	From dizziness and headache after 45 minutes to dizziness in 20 minutes and death in 1 hour. Immediate danger.

If the alarm sounds, immediately move to fresh air and seek medical attention if symptoms are present. Do not re-enter the affected area until CO levels have returned to safe limits.



Figure 4: Carbon Monoxide Exposure Risks

This graphic illustrates the dangers of carbon monoxide exposure at different concentration levels (PPM) and corresponding exposure times. It visually represents the progression from normal fresh air to life-threatening conditions, emphasizing the importance of monitoring CO levels.

7. Maintenance

- **Battery Replacement:** When the battery indicator on the display shows low power, replace the Panasonic CR123A battery. Ensure the device is powered off before replacing the battery.
- **Cleaning:** Wipe the exterior of the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the sensor inlet is clear of debris. The IP67 rating means it is protected from dust and can withstand immersion in water up to 1 meter for 30 minutes, but it is not designed for continuous submersion.
- **Sensor Replacement:** The electrochemical sensor in your Sensorcon AV8 Inspector is designed for long-term use. Sensor replacement should only be performed by Sensorcon or authorized service centers to ensure proper calibration and performance.
- **Storage:** Store the device in its protective carrying case in a cool, dry place when not in use for extended periods.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on	Dead or improperly installed battery	Replace battery with a new Panasonic CR123A, ensuring correct polarity.
No CO reading (always 0 PPM) in suspected CO environment	Sensor blocked or damaged; device malfunction	Check sensor inlet for obstructions. If problem persists, contact Sensorcon support.
Alarm sounds continuously or falsely	Actual CO presence; sensor fault; environmental interference	Evacuate to fresh air immediately if CO is suspected. If false alarm, try moving to a different area. If persistent, contact Sensorcon support.
Display is dim or flickering	Low battery	Replace battery.

For issues not listed above or if troubleshooting steps do not resolve the problem, please contact Sensorcon Customer Support.

9. Specifications

Feature	Detail
Brand	Sensorcon
Model	AV8 Inspector (AV8-CO-01)
Power Source	Battery Powered (1 x Panasonic CR123A, included)
Sensor Type	Electrochemical
Alarm Type	Audible (80-85 dB) & Visual (LEDs)
Low Alarm Threshold	35 ppm
High Alarm Threshold	200 ppm
Item Weight	4 Ounces
Product Dimensions	3.2 x 2.2 x 0.9 inches
Ingress Protection (IP) Rating	IP67 (Dust tight, submersible up to 1m for 30 min)
Certifications	UL Certified
UPC	787639328674

10. Warranty and Support

The Sensorcon AV8 Inspector is backed by a 2-year protection plan, ensuring peace of mind for your investment. This plan covers common issues and ensures your device remains in optimal working condition.

Protection Plan Coverage:

- Cracked Screens
- Cracked Cases
- Stuck Buttons

Under the extended protection plan, you can receive a fully calibrated unit with a new sensor and battery, effectively making your unit like-new.



Figure 5: 2 Year Protection Plan

This image promotes the 2-year protection plan available for the Sensorcon Inspector 2 and AV8 Inspector models, highlighting the extended coverage for the device.



Figure 6: Like-New Unit under Protection Plan

This image illustrates the benefit of the extended protection plan, showing that a unit can be returned to a 'like-new' state with a new sensor and battery, ensuring continued optimal performance.

Contact Support:

For technical assistance, warranty claims, or service inquiries, please visit the official Sensorcon website or contact their customer support team:

Website: www.sensorcon.com

Email: support@sensorcon.com

Phone: (Toll-Free) 1-800-XXX-XXXX (Example)

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