

ChemSee: Toxic Gas Exposure Monitoring

EYAL Wireless System Remote, Wireless Monitoring of Toxic Gas Exposure WDD-04 & WDD-04L



The EYAL Wireless Monitoring System is an instant, versatile, continuous remote and real-time monitoring system for exposure of personnel, vehicles and static locations to toxic gases and radiation.

The System allows for continuous, quantitative determination of exposure levels of many remote sensors, i.e. people or places. Each Sensor transmits data **continually**, even if it is worn by a moving person. The computer analyzes the transmitted data, calculates the exposure dose and the gas concentration around the sensor. The computer maintains a file with the exposure data for each person. The sensors can be switched to detect a different gas or radiation by replacing the dosimeter card inside the sensor.

The EYAL system utilizes multiple Sensors which continually transmit data on the toxic gas around the Sensor to a Central Command for coordinated monitoring and response.

How It Works:

- Each employee attaches a wireless sensor to their clothing.
- The Sensor continuously transmits the employees exposure level to Central Command.
- Software interprets and stores data from each employee Sensor to determine exposure dose based on color formed.
- The Central Command can automatically or manually alert employees if exposure levels are outside acceptable limits.
- The system can be placed on many people or used in fixed places to monitor the presence of toxic gases in specific rooms or locations simultaneously.

FEATURES

- Simple, quantitative monitoring of exposure to toxic gases and radiation.
- Readings are continuously transmitted to, recorded and evaluated by software at Central Command for immediate response.
- The project manager views the exposure of all people and places instantly, and can respond in real-time to reduce exposure.
- The same reader can be used to monitor exposure to many different toxic gases.
- An alarm is triggered when exposure exceeds harmful levels.
- Employee exposure is recorded and maintained for future analysis and record-keeping.
- The software is simple to use, and requires little training to get started.

Available Dosimeters

- Ammonia, 0 - 200 ppm*hr (NH3-001)
- Aromatic Amines, 0 - 16 ppm*hr (ARA-002)
- Carbon Monoxide, 0 - 150 ppm*hr (CMO-005)
- Carbon Monoxide, 0 - 550 ppm*hr (CMO-006)
- Chlorine, 0 - 1.2 ppm*hr (CHL-006)
- Formaldehyde, 0 - 1 ppm*hr (FOR8-007)
- Formaldehyde, 0 - 8 ppm*hr (FOR5-015)
- Hydrazine, 0 - 1.2 ppm*hr (HYD-009)
- Hydrogen Sulfide, 0 - 2 ppm*hr (H2S-010)
- Hydrogen Sulfide, 0 - 8 ppm*hr (H2S-011)
- Nitrogen Dioxide, 0 - 8 ppm*hr (NO2-011)
- Sulfur Dioxide, 0 - 2 ppm*hr (DOS-014)
- Sulfur Dioxide, 0 - 8 ppm*hr (DOS-015)

Common Uses

- Monitoring Industrial Workers to ensure that exposure levels do not exceed regulatory limitations.
- Measuring exposure of HAZMAT crew to toxic gases during clean-up operations.
- Monitoring exposure of military personnel during field operations or when handling hazardous materials.
- Monitoring exposure of maintenance crews during scheduled and unscheduled maintenance operations. These crews are often exposed to large doses of toxic gas when closing leaks or working in hazardous areas.

Related Products

- **DD-04:** Digital Electronic Reader for ChemSee Dosimeters
- **DD-04L:** Wireless, Continuous Monitoring System for Toxic Gases with LCD Display

SPECIFICATIONS

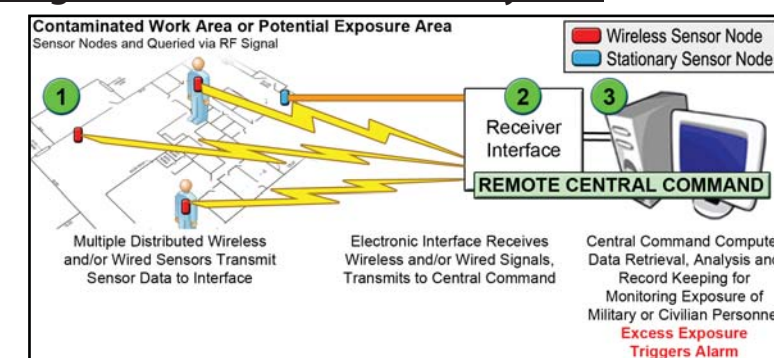
Dimensions: 3 1/4 x 1 5/8 x 3/4 in (LxWxH)

Weight : 75 grams (85 grams w/ LCD)

Analysis Method: **Quantitative** Digital Reading of Colorimetric Dosimeter

Reading Time: Continuous

Diagram of the EYAL Wireless System



Wireless Reader Attached to Lab Coat



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