# **ToxiRAE II** Personal Gas Monitor

# A full-featured instrument for the price of a disposable

The **ToxiRAE II** single-gas monitor continuously displays toxic gas concentrations and costs just a little more than disposable detectors. Unlike typical disposables that only display remaining life, the **ToxiRAE II** is a full-featured gas monitor providing continuous, digital display of the gas concentration, STEL, TWA and Peak values as well as high, low, TWA and STEL alarms.



Actual Size

A simple-to-use one-button product, the **ToxiRAE II** is easy to calibrate. Use the preset alarms, or modify the alarms to meet your specific requirements. In contrast to disposables that are turned on once and remain on until their batteries expire, you decide when and where to use your **ToxiRAE II**, and you turn it on and off accordingly.

The **ToxiRAE II** does not have a pre-programmed expiration date, so you get the full life out of the battery and sensor. Sensors and battery are easily replaced in the field. And because the cost of the **ToxiRAE II** is about the same as many reduced-feature disposables, you have the choice of renewing it or disposing of it and starting with a fresh, new monitor.

#### **Key Features**

- Large, easy-to-read continuous display of gas concentration in ppm
- Displays STEL, TWA, Peak values, and alarm minutes used
- $\bullet$  Sensors available: H\_2S, CO, O\_2, NH\_3, Cl\_2, ClO\_2, HCN, NO, NO\_2, PH\_3, SO\_2

#### Cost effective

- · Field-replaceable battery and sensor
- 2-year warranty

#### You are in control

- You turn it on and off
- User-adjustable High, Low, STEL and TWA alarms
- Varying audio alarm signals for different alarm conditions
- Bright red flashing alarm
- Loud 90 dB buzzer
- Built-in vibration alarm

Tel: +45.8652.5155

- Holds Peak values
- Simple calibration

#### **Designed for tough environments**

- Durable, highly impact-resistant, carbon-loaded ABS housing
- Highly resistant to RF interference
- IP-55 rated weather resistant
- Stainless-steel corrosion-resistant attachments

#### Hands-free use

 Small enough to be clipped onto a hardhat, shirt pocket, shoulder strap, or belt

#### **Applications**

- Refineries
- Oil production
- Contractors
- Scheduled plant maintenance turnarounds
- Chemical plants
- Fire service
- Industrial safety
- Pulp & paper
- · Heavy industry
- Waste-water treatment plants
- · Shipyards and maritime
- Landfill operations
- Trenches, silos, railcars
- · Power plants

ATEX

Steel mills



()

ISO 9001 🗸

CERTIFIED

3775 North First Street, San Jose, CA • 95134 • USA Tel: 877.723.2878 • Fax: 408.952.8480 Email: raesales@raesystems.com • www.raesystems.com

RAE Systems (Hong Kong) Ltd. Room 8, 6/F, Hong Leong Plaza, 33 Lok Yip Road, Fanling, N.T. • Hong Kong Tel: 852.2669.0828

RAE Systems Europe Orestads Boulevard 69, 2300 Copenhagen S • Denmark

**RAE Systems Inc.** 

## **Specifications\***

**Default Sensor Settings** 

Gas	Range (ppm)	Resolution (ppm)
Ammonia (NH <sub>3</sub> )	0-50	1
Carbon Monoxide (CO)	0-500	1
Carbon Monoxide (CO)	0-1999	10
Chlorine (Cl <sub>2</sub> )	0-10	0.1
Chlorine Dioxide (ClO <sub>2</sub> )	0-1	0.01
Hydrogen Cyanide (HCN)	0-100	1
Hydrogen Sulfide (H <sub>2</sub> S)	0-100	1
Nitric Oxide (NO)	0-250	1
Nitrogen Dioxide (NO <sub>2</sub> )	0-20	0.1
Oxygen (O <sub>2</sub> )	0-30%	0.1%
Phosphine (PH <sub>3</sub> )	0-5	0.01
Sulfur Dioxide (SO <sub>2</sub> )	0-20	0.1

Sensors are not interchangeable.

#### **Detector Specifications**

#### ToxiRAE II Monitor includes:

- ToxiRAE II detector with sensor as specified
- Operation and maintenance manual
- Rugged stainless-steel alligator clip (installed)
- Stainless-steel belt clip / hardhat adapter
- Wrist strap
- Calibration gas test adapter
- · High-capacity Lithium battery installed

#### Accessories

Protective rubber boot

Size	3.6" (9.3 cm) x 1.9" (4.9 cm) x 0.9" (2.2 cm)	
Weight	3.6 oz (102 g) with clip	
Battery	User-replaceable 2/3 AA high-capacity Lithium battery (use only RAE Systems batteries)	
Operating Period	Typical battery life is 2 years or 730 minutes of alarm for CO and H <sub>2</sub> S sensors One year typical life or 360 minutes of alarm for all other sensors	
Display	Easy-to-read LCD for continuous display of concentration in ppm and text messages	
Keypad	One-button operation	
Direct Readout	<ul> <li>Instantaneous display of toxic gas concentration in ppm (or oxygen in vol %)</li> <li>STEL &amp; TWA values</li> <li>Peak hold</li> <li>Alarm minutes consumed</li> </ul>	
Alarms	<ul> <li>Audible: 90dB at 10 cm</li> <li>Visual: Bright red/green LED bar visible from top, front, and sides</li> <li>Sensory: Built-in vibration alarm</li> <li>High: Displays "High," emits 3 beeps and flashes every 3 seconds</li> <li>Low: Displays "Low", 2 beeps and flash every 3 seconds</li> <li>STEL: Displays "STEL," 1 beep and flash every 3 seconds</li> <li>TWA: Displays "TWA," 1 beep and flash every 3 seconds</li> <li>Low battery displays empty battery symbol, 1 beep per minute</li> </ul>	
Calibration	Two point field calibration; auto-zero at startup, user initiated span/standard reference gas	
Temperature	-4° to 114°F (-20° to 45°C) for O <sub>2</sub> , CO, and H <sub>2</sub> S. Other toxic sensors are similar; for specific temperature ranges for other sensors, please reference RAE Systems Tech Note 114	
Humidity	0 to 95% relative humidity (non-condensing)	
EMI/RFI	Highly resistant to EMI / RFI. Compliant with EMC Directive 89/336/EEC	
IP Rating	IP-55: protected against dust, protected against low-pressure jets of water from all directions	
Hazardous Area Approval	UL/cUL Classified as Intrinsically Safe for use in Class 1, Division 1, Groups A, B, C, D, Hazardous Locations T6 rating, ATEX, II 1G, EEx ia IIB T6, II 2G, EEx ia IIC T6, CE Mark, European Conformity (Conformite Europene)	
Attachments	Wrist strap, stainless steel alligator clip (installed), stainless steel belt clip/hardhat adapter	
Warranty	2 years for instrument and CO, O <sub>2</sub> and H <sub>2</sub> S sensors 1 year for instrument, battery and all other sensors	

\*Ongoing projects to enhance our products mean that these specifications are subject to change.

### DISTRIBUTED BY:

