ToxiRAE II

Personal Single-Gas Monitor

The ToxiRAE II is a full-featured personal clip-on gas monitor that provides a continuous display of the gas concentration, STEL, TWA and peak values for over 10 toxic gases and oxygen deficiency or enrichment hazards.

- **Suits a wide variety of applications**
- **Compact and lightweight**
- **Rugged water- and dust-resistant housing**
- **Intrinsically safe**

KEY FEATURES

Easy to Use
- One-button operation
- Field-replaceable filter and battery
- Field-replaceable sensor in Europe and Asia only
- Unmistakable alarm notification: bright red flashing LED, loud 90 dB buzzer, powerful vibration

Durable
- Designed to meet IP-65 specifications
- Highly resistant to EMI/RFI. Compliant with EMC Directive 89/336/EEC
- Durable, highly impact-resistant, carbon-loaded ABS housing
- Stainless-steel corrosion-resistant alligator clip

Versatile
- Multiple sensors available to cover a variety of applications, including: H_2S, CO, O_2, NH_3, Cl_2, ClO_2, HCN, NO, NO_2, PH_3, and SO_2 sensors
- Hands-free use: clips onto a hardhat, shirt pocket, shoulder strap, or belt
- Displays STEL, TWA, peak values, and alarm minutes used

APPLICATIONS
- Oil and gas
- Chemical plants
- Fire service
- Industrial safety
- Pulp and paper
- Waste-water treatment plants
- Landfill operations
- Power plants
- Steel mills

ISO 9001 CERTIFIED · c UL us CLASSIFIED · CE · IECEx · ATEX

ToxiRAE II

Personal SIngle-Gas Monitor

RAE SYSTEMS
by Honeywell

SPECIFICATIONS

Detector Specifications

Size	3.6" x 1.9" x 0.9" (9.3 cm x 4.9 cm x 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	2 years typical battery life when used 8 hours/day with less than 5 minutes of alarms per day.
Display	Easy-to-read LCD continuously displays gas concentration and text messages
Keypad	One-button operation
Direct Readout	• Instantaneous display of toxic gas concentration in ppm (or oxygen in Vol %) • STEL, TWA, and Peak values • Alarm minutes consumed
Alarms	• Audible: 90dB at 10 cm • Visible: Bright red/green LED bar visible from top, front, and sides • Sensory: Built-in vibration alarm • High: Displays "High," emits 3 beeps and flashes every 3 seconds • Low: Displays "Low," 2 beeps and flashes every 3 seconds • STEL: Displays "STEL," 1 beep and flash every 3 seconds • TWA: Displays "TWA," 1 beep and flash every 3 seconds • Low battery: Displays empty battery symbol, 1 beep per minute
Calibration	Two-point field calibration
Temperature	-40° to 131° F (-40° to 55° C) for O_2, CO, and H_2S. For specific temperature ranges for other sensors, please reference RAE Systems Technical Note TN-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	Engineered to meet IP-65 specifications
Hazardous Area Approval	• UL/cUL Classified as Intrinsically Safe for use in Class I Division 1, Groups A, B, C, D • Hazardous Locations T5 rating (UL/cUL, ATEX) • ATEX, II 1G, EEx ia IIB T5, or II 2G, EEx ia IIC T5 • CE Mark, European Conformity • IECEx Ex ia IICT4
Attachments	Stainless steel alligator clip (installed), wrist strap
Warranty	2-year warranty for instruments with O_2, CO, and H_2S sensors (1 year for all others)

Specifications are subject to change

Sensor Specifications

Gas Monitor	Range	Resolution
Ammonia (NH_3)	0 to 50	1
Carbon Monoxide (CO)	0 to 500	1
Carbon Monoxide (CO)	0 to 1999	10
Chlorine (Cl_2)	0 to 10	0.1
Chlorine Dioxide (ClO_2)	0 to 1	0.01
Hydrogen Cyanide (HCN)	0 to 100	1
Hydrogen Sulfide (H_2S)	0 to 100	1
Nitric Oxide (NO)	0 to 250	1
Nitrogen Dioxide (NO_2)	0 to 20	0.1
Oxygen (O_2)	0 to 30%	0.1%
Phosphine (PH_3)	0 to 5	0.01
Sulfur Dioxide (SO_2)	0 to 20	0.1

Sensors are not interchangeable

MONITOR INCLUDES:

• ToxiRAE II detector with sensor as specified
• Operation and maintenance manual
• Rugged stainless-steel alligator clip (installed)
• Calibration adapter
• High-capacity Lithium battery installed

• OPTIONAL ACCESSORIES

• Protective rubber boot
• Wrist strap