

# **EntryRAE 1**

**Exclusive to Shawcity** 

# **Personal VOC protection**

## **EntryRAE**

The **EntryRAE 1** is a personal photoionisation (PID) detection. Reliable, easy to operate, and simple to calibrate, the **EntryRAE 1** delivers added protection without added complexity.

### Simple, Modular, Durable PID

RAE Systems is the leader in PIDs. Thier plug & play, self-cleaning (patented) PID is the most reliable and durable PID available today.

### Why PID?

Typical gas monitors do not detect many volatile organic compounds (VOCs). Detection with an LEL monitor is unacceptable when looking to comply with toxic limit values. Toxic limits are ofte far below 10%LEL.. VOC's are commonly found in:

- · Fuels, oils, degreasers
- · Industrial cleaners
- · Heat transfer fluids
- Solvents, paints
- Plastics, resins, adhesives
- · Pesticides and herbicides

### **Key Features**

- Reliable, self-cleaning VOC detector
- · Simple to operate
- · Easy to calibrate
- Durable, weather-resistant rubber body with belt clip
- Datalogging included and automatic
- · Big display with auto-backlight
- Loud alarm
- · Bright red flashing LED alarms
- Up to 16-hours of continuous operation
- Interchangeable Lithium-ion and alkaline battery packs
- Charging cradle doubles as an external battery charger
- Powerful pump allows sampledraws up to 30 metres (100')
- Low-flow pump alarm
- Also available with extra CO, H2S, LEL and O2 sensors

### **Applications**

- Refineries
- · Chemical processing
- Water & wastewater facilities
- · Semiconductor manufacturing
- Rail wagon and tank truck cleaning
- · Resin and nylon production
- Underground storage
- Sewer entries
- Cable vaults
- Agriculture





Pioneer Road Faringdon, Oxfordshire SN7 7BU Tel: 0870 777 2872 Fax: 0870 777 2871 Email: info@shawcity.co.uk www.shawcity.co.uk



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### Specifications \*

### **Sensor Specifications**

Sensor	Range	Resolution
PID	0-999ppm	1 ppm VOC

### **Detector Specifications**

Size	15L x 8.3W x 4.8H cm (5.9"L x 3.3"W x 1.9"H) without clip
Weight	567 g (20 oz ) with battery and clip
Sensor	Modular photoionisation detector for broadband detection of VOCs using 10.6 eV lamp
Battery	Drop-in rechargeable Li-ion battery pack     Standard alkaline battery adapter     Charging cradle doubles as external battery charger
Operating hours	Up to 16 hours continuous with Li-ion (typical), Up to 12 hours with alkaline
Display	Large 3.5 x 4.5 cm (1.4" x 1.8") display with automatic back-lighting in dim light or alarm condition
Keypad	Three-button operation
Direct readout	VOC's as parts-per-million by volume STEL and TWA values of VOC's High and low values Instantaneous reading for VOC's
Alarms	Audible (95Db at 30 cm), visible, and vibration High: 3 bleeps and flashes per second Low: 2 bleeps and flashes per second STEL and TWA: 1 beep and flash per second Low battery displays empty battery symbol, 1 bleep per minute
EMI/RFI	Highly resistant to EMI/RFI. Compliant with EMC Directive 89/ 336/EEC
IP rating	IP-55, protected against dust and low pressure jets of water from all directions
Communication	PC to monitor via RS232 (USB adapter available)
Calibration	Two-point field calibration for zero and span gas
Sampling Pump	Built-in pump, 500 cc per minute flow rate
Low Flow Alarm	Auto shut-off at low flow condition
Hazardous area approval	ATEX II 2G, EEx ia IIC T4     UL Class 1 Division 1, Groups A, B C, D T3C     CSA pending
Temperature	-20° to 47°C (-4° to 113°F)
Humidity	0% to 95% relative humidity (non-condensing)
Attachments	Stainless steel alligator clip (installed), wrist strap
Warranty	Lifetime on non-consuming components (per RAE Standard Limited Warranty)  1 year for PID

<sup>\*</sup>Ongoing projects to enhance our products means that these specifications are subject to change

#### Standard kit:

- Monitor with PID sensor
- Lithium-ion rechargeable calibration adapter battery
- · Alkaline battery adapter
- 5 external filters
- Charging cradle 230 V wall charger, UK plug or 120 V wall charger, US plug,
- ProRAE Studio software package
- Computer interface cable RS232 to RS232 with USB adapter
- User manual
- Shipping case

### Comprehensive Kit:

- · Monitor with PID sensor
- Lithium-ion rechargeable calibration adapter battery
- · Alkaline battery adapter
- 5 external filters
- Charging cradle 230 V wall charger, UK plug or 120 V wall charger, US plug,
- ProRAE Studio software package
- Computer interface cable RS232 to RS232 with USB adapter
- User manual
- · Shipping case
- Watertight transport case
- Sampling wand with 3m (15') of self-coiling Teflon® tubing
- Toolkit
- Isobutylene 34 L (100 ppm, balance air)
- · Regulator valve for cal gas and tubing

### **AutoRAE Docking Station:**

- Automated bump test and calibration system
- Drop-in, push-button operation











Pioneer Road

Faringdon, Oxfordshire SN7 7BU

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