



# MVI

## MERCURY DETECTOR

FAST, ACCURATE DETECTION  
OF MERCURY VAPOURS

[ionscience.com](http://ionscience.com)

Unrivalled Gas Detection.





ACCURATELY DETECT MERCURY VAPOURS  
IN JUST 3 SECONDS. MVI DOES NOT  
SATURATE OR NEED REGENERATING  
ELIMINATING INSTRUMENT DOWNTIME.

## Best available detection

- Fast 3 second response
- Highly accurate
- Range: 0.1 - 200 & 1.0 - 1999 microgram / cubic meter
- Fast indication and recovery

## Minimal downtime

- No saturation, no regeneration - eliminates downtime
- Ready to detect within minutes
- Continuous 5 1/2 hour operation

## Convenience

- Large, clear digital display
- Portable simple one handed operation
- Easy to use - minimal training required
- Robust and withstands harsh environments
- Audible alarm gives clear indication of mercury vapours

## Low cost operation

- Inexpensive consumables and parts
- 2 year warranty when instrument registered online





The Mercury Vapour Indicator (MVI) is a revolutionary instrument accurately detecting hazardous mercury vapours in just 3 seconds! The instrument's unique advantage is its dual beam UV absorption technology and ability to measure high concentrations of mercury without saturating; requiring no regeneration between readings, eliminating downtime.

Fast and accurate, MVI gives a real time response and is ready to detect in minutes. MVI provides continuous readings and offers two detection ranges: 0.1 to 200 and 1.0 to 1999 microgram/cubic meter, ideal for time weighted average (TWA) monitoring.

MVI is a portable mercury vapour detector that utilises a high performance pump for fast indication and recovery. The instrument's audible alarm and large digital display clearly indicate the levels of mercury present.

Ergonomically designed with simple, one handed operation MVI is the ideal survey unit for rapid and accurate mercury detection, screening for mercury spills and monitoring for exposure limits.

### **Extend your instrument warranty**

Your MVI instrument warranty may be extended by simply registering your product on the Ion Science website within one month of purchase. Visit [www.ionscience.com/instrument-registration](http://www.ionscience.com/instrument-registration) to take advantage of this offer.

### **Service and Calibration**

MVI requires annual calibration to maintain best accuracy, instrument performance, and to maintain its extended warranty. Contact Ion Science or a local service centre for more information.

### **Applications include:**

- Manufacturing
- Recycling
- Fluorescent lamp reprocessing plants
- Mining
- Petroleum
- Hydrocarbon
- Refining
- Bioremediation

### **Accessories**

MVI is supplied with an exclusive range of accessories. Visit [www.ionscience.com/mvi](http://www.ionscience.com/mvi) for more info.



## Technical specifications

### DETECTOR

- Dual Beam Ultraviolet Absorption Module

### ACCURACY

- $\pm 5$  micrograms or  $\pm 10\%$  reading

### OPERATION

- After warm up MVI gives real time mercury vapour concentrations

### ALARM

- Audible Alarm Factory pre-set to 20 microgram/cubic meter

### INSTRUMENT RANGE

- 0.1 to 200 and 1.0 to 1999 microgram.cubic meter

### TEMPERATURE

- 10 °C to 50 °C

### WEIGHT & DIMENSIONS

- 6 lbs 10 oz (3Kgs)
- 145 x 295 x 80 mm

### REPEATABILITY

- $\pm 5\%$  FSD @ 1  $\mu\text{g}/\text{m}^3$

### BATTERIES

- NiMH - last up to 5 1/2 hours from full charge

### POWER

- NiMH

### RESPONSE

- 3 seconds

MVI V1.6. This publication is not intended to form the basis of a contract and specifications can change without notice.

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“We rely on the Ion Science MVI with our life and the health and safety of those around us, in the extreme heat of the Middle East deserts, in the tropics of Asia, the chilling Bass Strait of Southern Australia and in extremely high levels of mercury vapour. The units must work every time, must be 100% accurate and they must be able to cope with the inevitable knocks and falls of hard use and tough environments. The MVI does that all day, every day, and has not let us down.”

**Ryan Crowe, Director, No Heat Resources.**