



MVI

MERCURY DETECTOR

FAST, ACCURATE DETECTION
OF MERCURY VAPOURS

ionscience.com

Pioneering Gas Sensing Technology.





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 - 199 & 1 - 1999 microgram / cubic meter
- Fast indication and recovery

Minimal downtime

- No saturation, no regeneration - eliminates downtime
- Ready to detect within minutes
- Continuous >4.5 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 199 and 1 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 ION Science website 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 the ION Science website for more information.



Technical specifications

Detector

- Dual Beam Ultraviolet Absorption Module

Accuracy

- ± 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 199 and 1 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 4.5 hours from full charge

Power

- NiMH

Response

- 3 seconds

MVI V1.8. This publication is not intended to form the basis of a contract and specifications can change without notice.

Manufactured by:

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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.