

MVI

Mercury vapour indicator



INTRODUCTION

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.

It does not saturate and requires no regeneration between readings, eliminating downtime of the instrument.

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.

TECHNICAL FEATURES

- **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 $20 \mu\text{g} / \text{m}^3$
- **Instrument range:** 0.1 to 200 and 1.0 to 1999 $\mu\text{g} / \text{m}^3$
- **Temperature:** 10 oC to 50 oC
- **Weight and 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 6 hours from full charge
- **Power:** NiMH
- **Response:** = 3 seconds

AREAS OF APPLICATION

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

Best available detection

- Fast 3 second response
- Highly accurate
- Range: 0.1 - 200 & 1.0 - 1999 $\mu\text{g} / \text{m}^3$
- Fast indication and recovery

Minimal downtime

- No saturation, no regeneration - eliminates downtime
- Ready to detect within minutes
- Continuous 6 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

Service and Calibration

MVI requires annual calibration to maintain best accuracy, instrument performance, and to maintain its extended warranty.