MVI

Accurately detect mercury vapours in just 3 seconds. MVI does not saturate or need regenerating eliminating instrument downtime.



Overview

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 delivers real-time measurements after a 10-minute warm-up. MVI provides continuous readings and offers two detection ranges: 0.1 to 199 and 1 to 1999 microgram/cubic meter, allowing users to select the range best suited to their monitoring requirements.

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.

Best Available Detection

- Fast 3 second response
- Highly accurate
- Range: 0.1 to 199 and 1 to 1999 microgram/cubic metre
- Fast indication and recovery

Minimal Downtime

- No saturation, no regeneration - eliminates downtime
- Ready to detect within minutes
- Continuous >4.5 hour operation

Low Cost Operation

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



MVI Features



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 to take advantage of this offer.

Service and Calibration

Annual calibration is recommended to maintain measurement accuracy and instrument performance, and is required to maintain the extended warranty. Contact ION Science or your local service centre for more information.

Pioneering Gas Sensing Technology. ionscience.com

Common Applications

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



Technical Specifications

Detector	Dual Beam Ultraviolet Absorption Module
Accuracy	±5 micrograms or ±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
Temperature	10 °C to 50 °C
Weight & dimensions	6 lbs 10 oz (3 kg) 145 x 295 x 80 mm
Repeatability	±5% FSD @ 1 µg/m³
Batteries	NiMH - lasts over 4.5 hours from full charge
Power	NiMH
Response	3 seconds

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

Spares & Accessories



PTFE Water Trap Filter (1.0 Micron)

Replacement 1.0-micron PTFE water-trap filter to prevent liquids entering the MVI and damaging the instrument.

P/N 4/JLF-03



Probe with Water Trap Filters (Pack of 10)

Replacement MVI sampling probes supplied with water-trap filters to protect the instrument.

P/N A-26007



Probe Kit (5 Probes & 50 Water Trap Filters)

Replacement MVI probe kit containing five probes and 50 water-trap filters.

P/N A-26017



24 V 6-Way Power Supply

Replacement power supply for operating MVI

P/N A-26220



MVI Data Logger

Data logger for recording and downloading measurements from the MVI.

P/N A-869204

> "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

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