# MVI

## Mercury Vapour Indicator for Continuous, Mercury Detection

Revolutionary dual beam UV absorption technology means MVI does not saturate or need regenerating between readings.

## Features:

- Dual beam UV absorption technology
- No saturation, no regeneration - eliminates instrument downtime
- Fast, 3 second response
- Range: 0.1 to 200 and 1.0 to 1999 microgram.cubic meter
- Highly accurate measurement
- Continuous readings
- High performance pump for fast indication and recovery
- PTFE probe with moisture trap filter
- Large digital display
- Simple, one-handed operation
- Audible alarm
- Robust portable and fixed options available

Advanced Gas Sensing Technologies

**www.ionscience.com**

The MVI rapidly detects and continuously measures mercury vapour. The revolutionary dual beam technology means the instrument does not saturate or require regeneration between readings like the traditional gold film detection methods, ensuring instrument downtime is eliminated.

Fast and accurate, MVI gives a real time response within just 3 seconds. Ready to detect instantly, MVI provides continuous readings and offers two detection ranges: 0.1 to 200 and 1.0 to 1999 microgram/cubic meter.

MVI 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, accurate mercury vapour detection. Robust portable and fixed options are available.

## Applications include:

- Manufacturing
- Recycling
- Fluorescent Lamp Reprocessing Plants
- Mining
- Petroleum
- Hydrocarbon
- Refining
- Bioremediation

## Service & Calibration

The MVI requires annual calibration to maintain best accuracy and instrument performance. Instruments are calibrated against a near Primary Standard and issued with a certificate of calibration. Ion Science provides Gold and Platinum Service Contracts offering total lifetime cost solutions. Contact Ion Science for more information.

## TECHNICAL SPECIFICATION

**DETECTOR**
Dual Beam Ultraviolet Absorption Module

**ACCURACY***
± 5 micrograms or ± 10% reading

**OPERATION**
After warm MVI gives real time mercury concentrations

**ALARM**
Audible Alarm Factory Pre-set to 25 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**
± FSD

**BATTERIES**
NiMH - last up to 8 hours from full charge

**POWER**
NiMH

**RESPONSE**
= 3 seconds

## Accesories:

Ion Science provides an exclusive range of MVI accessories as featured below.

| Description | Part Number |
|---|---|
| Zero Filter | 150-173 |
| PTFE Probe and pack of 10 filters | 703-341 |
| Manual | 703-990 |
| 230 VAC Charger (UK) | 201-031 |
| 220 VAC Charger (Europe) | 201-038 |
| 110 VAC Charger (USA) | 201-033 |

Part number MVI 1.2 This publication is not intended to form the basis of a contract and specifications can change without notice.

ion SCIENCE

ION SCIENCE is ISO9001:2000 certified (December 2003)

For further information and ordering please call:

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