

MERCURY INSTRUMENT CALIBRATIONS

With increased global interest in monitoring mercury, regular traceable calibrations are now even more essential in maintaining your test equipment to ISO accredited standards.

Our calibration department is dedicated to ensuring that your instruments are accurate, reliable and compliant.

Our laboratory is staffed by highly skilled technicians with experience in ambient air, gas analysis and calibration of portable Hg instruments.

SERVICES

Our services include:

- Compliance to ISO 9000 standard.
- NIST/NATA mercury vapour traceable calibrations.
- Full asset management records on our database.
- Calibration recall alerts emailed one month before due date.
- Consumables and spares in stock for fast service.
- Calibration certificate and label supplied with each instrument.
- Emergency hire equipment available on request.
- Fast calibration service anywhere in the world.



Mercury Tracker 3000



Jerome 405

CALIBRATION PRODUCT RANGE

We service and calibrate the following Hg monitors:

- Arizona Instruments – Gold Film and Atomic Fluorescence Spectroscopy Mercury Analysers.
- Mercury Instruments – Portable Mercury Vapour and UV Absorption Analysers.
- Ohio Lumex – Portable Mercury Vapour Analysers.
- Bacharach – Mercury Vapour Sniffers.
- Nippon Instruments – Portable Mercury Vapour Analysers.
- Genesis Laboratory Systems – Portable Mercury Vapour Analysers.

Other manufactured mercury instruments can be calibrated on request.

For a quotation, please contact us at calibrations@ecotech.com or phone +61 3 9730 7811

SERVICE & SUPPORT

To ensure we are providing customers with the optimum service, all our technicians receive regular training in the practice of ISO 17025 calibration and competency testing.

A standard annual service and calibration for both UV absorption and gold film technology sensor methods includes:

- Thorough ultrasonic cleaning of instrument including glassware.
- Deep cleansing of all fittings (replacement if needed).
- Replacement of all tygon tubing.
- Installation of new charcoal and chemical scrubbers.
- Sample flow and leak check.
- 24 hour battery check.
- Complete electronic function check.
- NIST traceable calibration certificates which include records of incoming and final outgoing data.
- Calibration service options:
 - Zero and 1 span point
 - Zero and 3 span points
 - Zero and 5 span points

The above span options are all reported with an Excel graph showing the standard error of the linear regression (STEYX).

Our standard points are 0, 10, 13, 25, 35 and 50 $\mu\text{g}/\text{m}^3$. Other points are available upon request.



Technician at work in the calibration laboratory

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Jerome 431

IN-HOUSE LABORATORY

We perform all mercury calibrations at our head office in Victoria, Australia.

Our laboratory is complete with gas dilutors traceable to NATA standards for flows from 1 litre per minute up to 10 litres per minute.

Calibrations are performed using a mercury photometer operating at UV253.7nm.

The permeation source is traceable to NIST standards and is housed in a Vici-Metronics permeation oven set to 70.00 ± 0.01 °C with a carrier flow of 100cc/minute. The permeation oven consists of a passivated glass-coated chamber that houses the permeation device.

During the calibrations, the gas flow, temperature and pressure are controlled to provide a combined overall uncertainty of ± 5.0 %.

