

▶ J505

Mercury vapor analyzer



Technical specifications

Detection range: 0.05 µg/m³ to 500 µg/m³

Resolution:

- Standard mode: 0.01 µg/m³ (10 ng/m³)
- Fast mode: 0.1 µg/m³ (100 ng/m³)
- Search mode: 0.1 µg/m³ (100 ng/m³)

Accuracy: ±15% at 0.3 µg/m³, ±10% at 1 µg/m³, ±10% at 25 µg/m³, ±10% at 100 µg/m³

Response time:

- Standard mode: 28 seconds
- Fast mode: 16 seconds
- Search mode: 8 seconds, then updates in 1-second intervals

Flow rate: 1 l/min

Result units: ng/m³, µg/m³, mg/m³

Self-sampling intervals: 1, 2, 5, 10, 15, 20, 30, 45, 60, 90 or 120 minutes

Integrated data storage: 10,000 test results; retains date, time and up to 100 sampling sites

Display: 3.5" (9 cm) color LCD screen

Battery: NiMH rechargeable battery - 10+ hour life, charges in 3 hours

Power supply:

- 12 VDC for instrument
- 100-240 VAC, 1A, 50-60 Hz for AC power supply

Fuse: Self-resetting fuse

Output: USB A

Dimensions: 30.5 x 15.7 x 21.3 cm, **Weight:** 3 kg

Standards: UL 61010, CE

Product description

The **Jerome J505** is a **mercury vapor analyzer** using atomic fluorescence spectroscopy technology. It offers very low-level detection, from 0.05µg/m³ to 500µg/m³, meeting the stringent EPA and ATSDR standards for industrial and residential environments.

The **Jerome J505** also complies with the standards of organizations such as OSHA, NIOSH, and MSHA, ensuring its suitability for use in environments where worker safety is paramount, such as mines, refineries and other mercury-exposed industries.

Unlike devices using gold-film sensors, the **J505** requires no regeneration, eliminating the downtime associated with this step. This technology ensures reliable, reproducible measurements, while minimizing possible interference. The **Jerome J505** features a continuous search mode, enabling sources of mercury contamination to be quickly located.

The **Jerome J505 mercury vapor analyzer** features an intuitive interface and color display, making it easy to use in the field. Its compact dimensions and light weight (3 kg) make it portable, while retaining the analytical capabilities of a laboratory instrument. What's more, the **J505** can store up to 10,000 test results, with information on date, time and sampling locations, essential for efficient data management.

The **J505's** relatively low sampling rate of 1 L/min reduces sample dilution and improves detection efficiency. It offers three modes of operation: standard mode, fast mode and search mode, with response times ranging from 8 to 28 seconds, depending on the mode chosen.

The **Jerome J505 mercury vapor analyzer** runs on a rechargeable battery for around 10 hours, making it ideal for extended inspections. Its durable, resistant and ergonomic metal casing protects the device in harsh environments.

▶ Applications:

- Industrial hygiene
- Workplace safety (regulatory compliance)
- Extractive industries (mines and refineries)
- Oil and gas extraction and processing
- Electrical and electronics industry
- Recycling and industrial waste management
- Hospital waste treatment