

Jerome® J405 Mercury Vapor Analyzer

Advanced Gold Film Mercury Vapor Analysis

Portable, easy-to-use, low-level mercury detection – the Jerome J405 utilizes our industry-proven gold film sensor technology to detect mercury vapor at levels as low as 0.5 µg/m³, which meets and exceeds EPA and ATSDR standards for industrial and residential remediation. When equipped with data logging capabilities, the J405 can store data for up to 20,000 samples, including date, time, and location. Its durable metal housing, coupled with a 24 hour battery life, make the J405 the ideal tool for both routine and emergency mercury detection situations.



Features

ULTRA LOW-LEVEL DETECTION:

The Jerome J405 can detect mercury in the air at levels as low as 0.5 µg/m³ with a resolution of 0.01 µg/m³.

GOLD FILM SENSOR:

Validated in the field and in the lab for over 35 years, our proprietary gold film sensor ensures repeatable results across a wide range of applications.

VERSATILE:

The J405 is in active use by many environmental agencies, industrial hygienists, miners, and first response teams around the world.

REGULATORY COMPLIANCE:

With a lower detection limit of 0.5 µg/m³, the J405 meets and exceeds EPA and ATSDR standards for industrial and residential remediation actions as well as OSHA, NIOSH, ACGIH, and MSHA action levels.

OPTIONAL DATA LOGGING:

When equipped with data logging capabilities, the J405 can store data for up to 20,000 samples including date, time, and up to 80 locations.

SURVEY MODE:

While in survey mode, the J405 continuously draws in samples of air to help users locate the source of mercury contamination and enable corrective action to be taken.

FIELD REGENERATION:

The J405 boasts a battery life of 24 hours and offers battery powered sensor regeneration that can be performed wherever and whenever you need it, allowing for extended testing in the field.

RUGGED CONSTRUCTION:

Housed in a light, ergonomically-designed, durable metal casing, the J405 sets a new precedent for portable, low-level mercury monitors.

INTUITIVE INTERFACE:

The J405 offers simple, menu-driven operation and easy-to-understand diagnostics and error detection. It does not require PC software and comes with a USB interface for easy data transfer.



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Specifications

Detection Range	0.5 µg/m³ to 999 µg/m³
Resolution	0.01 µg/m³ (0.00001 mg/m³)
Accuracy	±10% at 1.0 µg/m³ ±5% at 25 µg/m³ ±5% at 100 µg/m³
Response Time	Sample Mode: 16 seconds Survey Mode: 2 seconds
Flow Rate	750 ± 50 mL/min
Result Units	µg/m³, mg/m³
Autosample Intervals	1, 2, 5, 10, 15, 30, 45, 60, 90 or 120 minutes
Optional Integrated Data Storage	20,000 test results; retains date, time, and up to 80 locations
Display	3.5" (9 cm) backlit LCD
Battery	Rechargeable NiMH 24 hour life, charges in 3 hours
Power Requirements	12 VDC for the instrument; 100-240 VAC, 47-63 Hz, 1.3A For the AC power supply
Fuse	Auto-resetting fuse
Operating Environment	0°C to 45°C, non-condensing, Non-explosive
Output	Digital: USB serial data to PC, printer, or USB flash drive Analog: 4-20 mA passive current loop; accurate to 0.3% of output
Dimensions	11" L x 6" W x 6.5" H (28 cm L x 16 cm W x 17 cm H)
Weight	5.3 lbs. (2.4 kg)
Warranty	1 year, factory parts and labor
Certifications	TUV 61010, CE

Applications

- Ambient Air Analysis
- HAZMAT/Emergency Response
- Industrial Hygiene & Worker Safety
- Gold Mining
- Regulatory Compliance:
- Detection & Cleanup
- Scrubber Efficiency Monitoring
- Mercury Exclusion Testing
- Light Bulbs & Mercury
- Switches Equipment Monitoring

