

# 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  $0.5 \mu\text{g}/\text{m}^3$ , which meets and exceeds EPA and ATSDR standards for industrial and residential remediation. When equipped with data logging capabilities, it 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.

**JEROME®**  
by Arizona Instrument LLC

# JEROME® J405

## MERCURY VAPOR ANALYZER



### Mercury vapor analysis for a wide range of applications

#### FEATURES

**ULTRA LOW-LEVEL DETECTION:** The Jerome J405 can detect mercury in air at levels as low as 0.5 µg/m<sup>3</sup> with a resolution of 0.01 µg/m<sup>3</sup>.

**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 across the world.

**REGULATORY COMPLIANCE:** With a lower detection limit of 0.5 µg/m<sup>3</sup>, 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 location.

**SURVEY MODE:** While in survey mode, the J405 continuously draws in samples of air in order to help locate the source of mercury contamination and allow 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.

**DURABLE:** 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 as well as easy to understand diagnostics and error detection. It does not require PC software and comes with a USB interface for easy data transfer.

#### SPECIFICATIONS

<b>Detection Range</b>	0.5 µg/m <sup>3</sup> to 999 µg/m <sup>3</sup>
<b>Resolution</b>	0.01 µg/m <sup>3</sup>
<b>Accuracy</b>	±10% at 1.0 µg/m <sup>3</sup> ±5% at 25 µg/m <sup>3</sup> ±5% at 100 µg/m <sup>3</sup>
<b>Response Time</b>	Sample Mode: 16 seconds Survey Mode: 2 seconds
<b>Flow Rate</b>	750 ± 50 mL/min
<b>Result Units</b>	µg/m <sup>3</sup> , mg/m <sup>3</sup>
<b>Autosample Mode</b>	Available in intervals of 1, 2, 5, 10, 15, 30, 45, 60, 90 or 120 minutes
<b>Optional Integrated Data Storage</b>	20,000 samples; retains date, time and location
<b>Display</b>	3.5" (9 cm) backlit LCD
<b>Battery</b>	Rechargeable NiMH 24 hour life, charges in 3 hours
<b>Power Requirements</b>	12 VDC for the instrument 100-240 VAC, 47-63Hz, 3.2A for the AC power supply/charger
<b>Fuse</b>	Auto-resetting fuse
<b>Operating Environment</b>	0°C to 45°C, non-condensing, non-explosive
<b>Output</b>	Digital: USB serial data to PC, printer, or USB flash drive  Analog: 4-20 mA passive current loop; accurate to 0.3% of output
<b>Dimensions</b>	11" L x 6" W x 6.5" H (28 cm L x 16 cm W x 17 cm H)
<b>Weight</b>	5.3 lbs. (2.4 kg)
<b>Certifications</b>	TUV 61010, CE

#### APPLICATIONS

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



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