

## ▶ Jerome J405

### Portable mercury vapor detector



### Technical specifications

**Detection range:** 0.5 µg/m<sup>3</sup> to 999 µg/m<sup>3</sup>

**Resolution:** 0.01 µg/m<sup>3</sup> (0.00001 mg/m<sup>3</sup>)

**Accuracy:**

- ±10% at 1.0 µg/m<sup>3</sup>
- ±5% at 25 µg/m<sup>3</sup>
- ±5% to 100 µg/m<sup>3</sup>

**Response time:**

- Sample mode: 16 seconds
- Survey mode: 2 seconds

**Flow rate:** 750 ± 50 ml/min

**Result units:** µg/m<sup>3</sup>, mg/m<sup>3</sup>

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

**Integrated data storage (optional):** 20,000 test results, retains date, time and up to 80 records

**Display:** 3.5" (9 cm) backlit LCD screen

**Battery:** 24-hour autonomy (3-hour charge time)

**Power supply:**

- 12 VDC for instrument;
- 100-240 VAC, 47-63 Hz, 1.3A For AC power supply

**Fuse:** Self-resetting fuse

**Output:**

- Digital: USB data to PC or printer
- Analog: 4-20 mA passive current loop, 0.3% output accuracy

**Dimensions:** 28 x 16 x 6.5 cm - Weight 2.4 kg

**Standards:** TUV 61010, CE

### Product description

The **Jerome J405** is a portable mercury vapor detector capable of detecting extremely low concentrations ranging from 0.5 µg/m<sup>3</sup> to 999 µg/m<sup>3</sup>, with a resolution of 0.01 µg/m<sup>3</sup>, in compliance with EPA and ATSDR standards for remediation actions in the industrial sector. It also complies with the regulations of several agencies such as OSHA, NIOSH and MSHA for interventions in the context of occupational safety.

One of the main features of the **Jerome J405** is its gold-film sensor, a proven technology for over 35 years, which guarantees reliable, reproducible results. The **J405** can also be used for continuous inspections thanks to its "Survey" mode, which enables continuous air monitoring to identify the source of mercury contamination.

The **Jerome J405** portable mercury vapor detector is designed to be rugged and ergonomic, with a 24-hour battery life, making it suitable for harsh field conditions. Its ability to store up to 20,000 samples with detailed information (date, time and location) enables easy data management, especially in complex working environments.

The **Jerome J405** requires no external software to operate and its data can be easily transferred via USB to a PC or flash drive. Its intuitive design allows simple operation thanks to a clear menu and built-in diagnostics, minimizing errors. Its ability to detect mercury concentrations at such low levels makes it an indispensable tool for professionals tasked with monitoring air quality and responding to mercury contamination.

### ▶ Applications:

- Industrial hygiene and workplace safety (regulatory compliance compliance)
- Extractive industries (mines and refineries)
- Oil and gas extraction and processing
- Coal-fired power plants
- Manufacture of pesticides, fungicides and chemicals
- Electrical and electronics industry
- Industrial waste management and recycling
- Hospital waste treatment
- Paper and pulp industry