



Jerome® 471

Low Level Mercury Vapor Analyzer

The Jerome® 471 mercury vapor analyzer is capable of detecting down to $0.030 \mu\text{g}/\text{m}^3$, utilizing the UV Atomic Absorption spectrometry method of mercury vapor assessment. Accuracies are maintained by means of an internal reference cell. Interferences common in other technologies are greatly reduced due to the absorption specificity of the mercury atom.

Portable and easy-to-use, the 471 will provide 16 hours of field testing on one battery charge. The on-board controller will allow the user to easily navigate the touch screen set-up and testing modes. The user-programmable Threshold Settings feature gives the operator the ability to adjust between Industrial or Residential threshold limit settings. A padded, adjustable shoulder strap and detachable probe aid in providing comfort and minimizing fatigue for the user during long periods of testing.

Applications:

- Mercury Spill Response & Cleanup
- Mercury Exclusion Testing
- Hazardous Waste Sites
- Fluorescent Lamps Disposal & Recycling

Features:

- Portable
- Wide Detection Range
- Ultra Low Level Detection
- Simple to Use
- Programmable Threshold
- Limit & Alarm Settings



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Additional Features:

- Ultra-low Mercury detection level in preparation for more demanding EPA regulations
- Wide detection range for applications ranging from emergency spill response to post clean-up
- Compliance or Scientific user modes
- Adjustable Industrial or Residential threshold limit settings
- 5-point NIST traceable Factory Calibration; 0.2, 0.5, 2, 10 and 25 $\mu\text{g}/\text{m}^3$
- User-friendly software for ease-of-use and data reporting
- Touch screen operation
- Linear response throughout entire range
- Internal data logging with available USB connection for data transfer to a laptop or PC
- Auto zeroing
- Built-in user's Help Guide

Jerome® 471 Specifications:

Resolution	0.001 $\mu\text{g}/\text{m}^3$
Detection Range	0.030 $\mu\text{g}/\text{m}^3$ to 250 $\mu\text{g}/\text{m}^3$
Precision	5% Relative Standard Deviation at 2 $\mu\text{g}/\text{m}^3$ 20% RSD at 0.2 $\mu\text{g}/\text{m}^3$ (5 Samples)
Accuracy	$\pm 2\%$ at 25 $\mu\text{g}/\text{m}^3$ $\pm 20\%$ at 0.2 $\mu\text{g}/\text{m}^3$
Power	Internal battery for 16 hours of portable operation. External battery charger (100-240 V) 50/60 Hz, 1.8 amps
Environmental Range	0 to +40°C, non-explosive
Interface	USB (for downloading data to a PC)
Dimensions	6" W x 19" L x 8" H / 15.5 cm W x 48.5 cm L x 20.5 cm H
Weight	17.5 lbs/7.9 kg
Warranty	1 year, factory parts and labor

Optional Equipment/Accessories:

- Functional Test Kit
- Maintenance Kit for routine maintenance