

Rental – Mercury Vapor Analyzer

Arizona Instrument Jerome® 431-X

The Jerome 431-X mercury vapor analyzer uses a patented gold film sensor for accurate detection and measurement of toxic mercury concerns for applications such as industrial hygiene monitoring, mercury spill clean up, and mercury exclusion testing. Simple, push-button operation allows users to measure mercury levels from 0.003 to 0.999 mg/m³ in just seconds.

FEATURES

- Rugged and easy to operate
- Inherently stable gold film sensor
- Pressure sensitive membrane switch operation
- Accurate analysis of mercury vapor in seconds
- Rechargeable internal battery pack for portability
- Wide detection range allows for multiple applications
- Automatic LCD backlight during low light conditions
- Survey mode for rapid source detection of mercury vapor concentrations
- Microprocessor ensures a linear response throughout the entire range of the sensor

OPTIONS

Data Logger to record field monitoring information

Maintenance Kit for routine maintenance and upkeep

Functional Test Kit for sensor operation verification in the field

Hard or Soft Field Carrying Case for versatile handling and additional storage

Jerome Communications Software Kit for downloading information from the data logger to a PC or for unattended, fixed-point sampling

Dosimeters to provide time-weighted averages for personal mercury exposure or gas stream analysis (reusable)

Option Board for external fresh air solenoid support, auto-zeroing, DC power operation, timed regeneration, 4-20 mA or 0-2 V analog output, and timed sampling

Calibration Check to verify low-level detection limits at 0.010 mg/m³ and 0.025 mg/m³

APPLICATIONS

- Mercury Surveys and Soil Screening
- Research Projects for Stack, Flue and Natural Gas
- Spill Response
- Mercury Exclusion Tests
- Worker Safety
- Monitor Disposal and Recycling of Fluorescent Lamps
- Hazardous Waste Sites
- Exhaust Duct Analysis



SPECIFICATIONS

Resolution:	0.001 mg/m ³
Detection Range:	0.003-0.999 mg/m ³
Precision:	5% Relative Standard Deviation at 0.100 mg/m ³
Accuracy:	±5% at 0.100 mg/m ³
Response Time:	13 seconds in Sample Mode 4 seconds in Survey Mode
Flow Rate:	750 cc/min
Environmental Range:	0°-40°C, non-condensing, non-explosive
Interface:	RS-232 port using Jerome Communications Software
Dimensions:	
431-X	6" W x 13" L x 4" H (16cm W x 33cm L x 10cm H)
431-XE	7" W x 14" L x 7" H (18cm W x 35cm L x 18cm H)
Weight:	
431-X	7 lbs./3 kg
431-XE	8 lbs./3.5 kg
Internal Battery Pack:	Rechargeable nickel-cadmium
Power Requirements:	100-120 V~, 50/60 Hz, 1 A or 220-240 V~, 50/60 Hz, 1 A
Warranty:	1 year, factory parts and labor
Marks:	European Communities (CE) for 220-240 V~ 431-XE model only

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