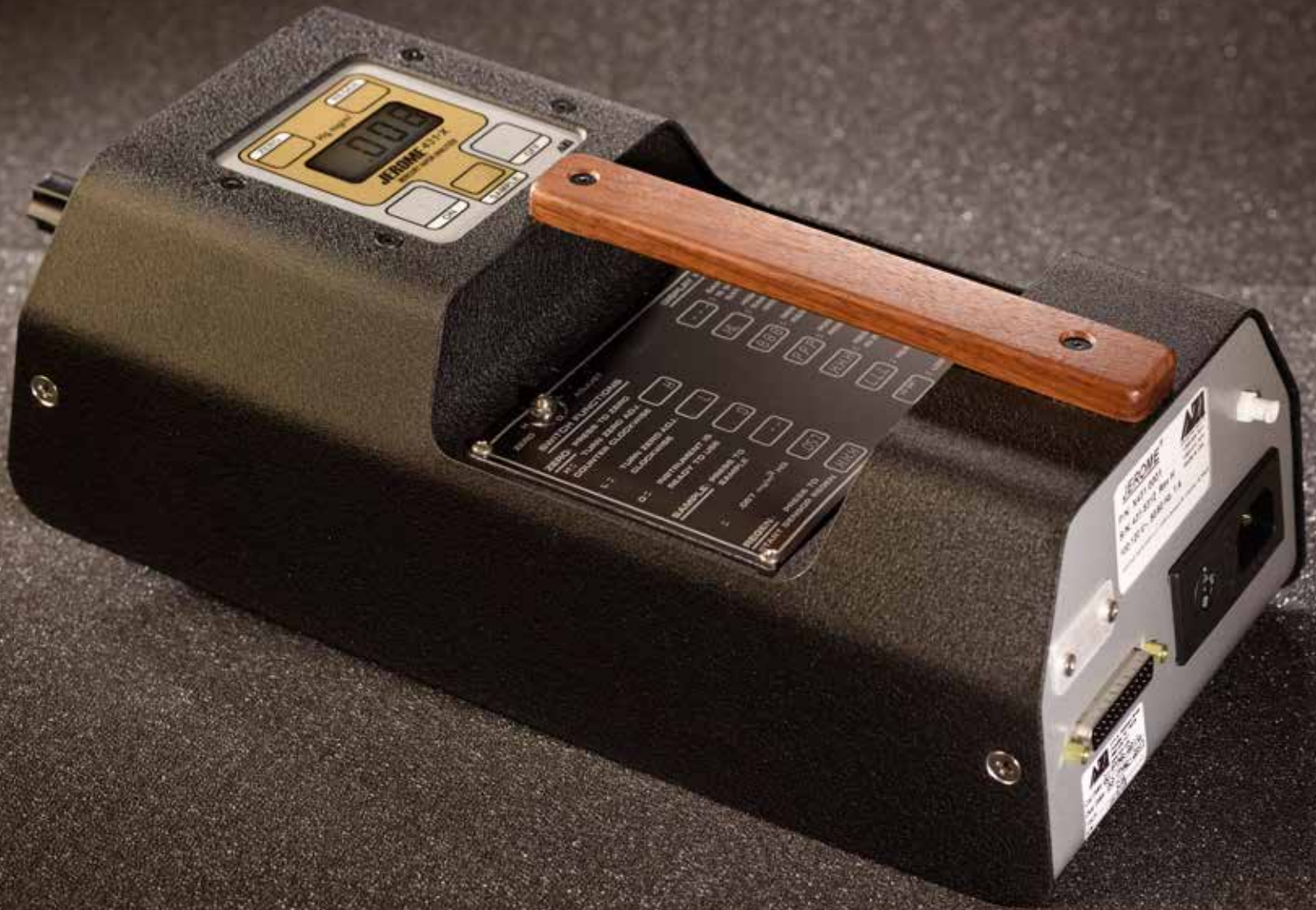


JEROME® 431-X

MERCURY VAPOR ANALYZER



TIME-TESTED GOLD FILM MERCURY VAPOR ANALYSIS

Durable, dependable and easy to use - the Jerome® 431-X mercury vapor analyzer utilizes our industry-proven gold film sensor technology to detect low levels of mercury. With just the touch of a button, the 431-X can detect mercury vapor in air from 0.003 mg/m³ to 0.999 mg/m³ in seconds. It is built tough for use in the field or in the lab and is ideal for industrial hygiene monitoring, mining, regulatory compliance, emergency response situations, and more.

JEROME® 431-X

MERCURY VAPOR ANALYZER



Mercury vapor analysis for a wide range of applications

FEATURES

LOW-LEVEL DETECTION: The Jerome® 431-X can detect mercury vapor in air from 0.003 mg/m³ to 0.999 mg/m³, making it ideal for industrial hygiene monitoring, mercury spill detection and cleanup, and mercury exclusion testing, among others.

GOLD FILM SENSOR: The 431-X features an inherently stable gold film sensor with an advanced microprocessor that ensures a linear response throughout the entire range of the sensor.

RUGGED CONSTRUCTION: Housed in a sturdy metal case, the 431-X is built to withstand rough operating conditions and deliver accurate results in the field or in the lab.

EASY TO USE: The quick reference guide beneath the handle helps simplify day-to-day use and the easy to read display screen is equipped with an automatic backlight that activates in low-light situations.

SURVEY MODE: The 431-X features a survey mode that allows the user to continuously draw in samples of air in order to sweep an area for mercury vapor hot spots and enable corrective action to be taken.

REGULATORY COMPLIANCE: The 431-X meets and exceeds OSHA, NIOSH, ACGIH and MSHA action levels and is in active use by many environmental agencies, industrial hygienists, miners and first response teams across the world.

OPTIONAL DATA LOGGING: When equipped with data logging capabilities, the 431-X can store data for up to 1,000 samples, including date and time.

OPTIONAL AUTOSAMPLE MODE: The 431-X offers an optional autosample mode that can be programmed to take a sample at various intervals between 1 and 60 minutes.

FIELD REGENERATION: The 431-X can perform sensor regeneration in the field when used with the optional AZI Power Inverter Kit, allowing for extended on-location testing.

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

SPECIFICATIONS

Detection Range	0.003 mg/m ³ to 0.999 mg/m ³
Resolution	0.001 mg/m ³
Accuracy	±5% at 0.100 mg/m ³
Response Time	Sample Mode: 12 seconds Survey Mode: 3 seconds
Flow Rate	750 ± 50 mL/min
Result Units	mg/m ³
Data Logging	Optional; stores 1,000 data points, retains date and time
Autosample Mode	Optional; programmable at various intervals between 1 and 60 minutes
Display	Backlit LCD
Battery	Rechargeable NiCad 6 hour life, charges in 14 hours
Power Requirements	100-120 VAC, 50/60 Hz, 1 A or 220-240 VAC, 50/60 Hz, 1 A
Fuse	F1A 250V, 5 mm x 20 mm
Operating Environment	0°C to 40°C, non-condensing, non-explosive
Output	RS-232 Serial Port, Analog: 4-20 mA passive current loop; accurate to 0.3% of output
Dimensions	Standard: 13" L x 6" W x 4" H (33 cm L x 15 cm W x 10 cm H) XE: 14" L x 7" W x 7" H (35 cm L x 18 cm W x 18 cm H)
Weight	Standard: 7 lbs. (3.18 kg) XE: 8 lbs. (3.5 kg)
Certifications	CE (220-240 VAC, 431-XE model only)



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