

# Jerome 411 Mercury Vapor Analyzer



The Jerome 411 mercury vapor analyzer uses a gold film sensor for the detection of mercury vapor concentrations in the air. A portable, easy-to-operate, hand-held unit, the Jerome 411 can easily be carried to locations of mercury concerns.

The range of the Jerome 411 is from 0.000 to 1.999 mg/m<sup>3</sup> Hg. The gold film sensor is inherently stable and selective to mercury, eliminating interferences common to ultraviolet analyzers such as particulates, hydrocarbons and magnetic fields.

When the sample cycle is activated, the internal pump in the Jerome 411 draws a precise volume of air over the gold film sensor. Mercury in the sample is adsorbed and integrated by

the sensor, registering it as a proportional change in electrical resistance. The instrument computes the concentration of mercury in mg/m<sup>3</sup> and displays the final result on the LCD readout until the next sample is initiated.

For more information on specific applications for the Jerome 411 or other Jerome instruments, contact a technical sales representative at 1-800-390-1414.



## ACTION LEVELS FOR MERCURY EXPOSURE

Government Agency	Action Level
OSHA	0.10 mg/m <sup>3</sup>
NIOSH	0.05 mg/m <sup>3</sup>
ACGIH	0.025 mg/m <sup>3</sup>
Non-Work Place Environments	0.001 mg/m <sup>3</sup>

## Physical Symptoms

Coughing, Shortness of Breath, Metallic Taste, Gum Inflammation, Chest Pains, Vomiting, Headaches, Irritability, Irritated Eyes & Skin, Fatigue, Rapid Breathing, General Weakness, Insomnia, Tremors, Depression.

## Mercury-Safe Work Practices

- Perform on-going monitoring
- Isolate in ventilated areas
- Store in sealed vessels
- Use respirators and gloves

# Jerome 411 Mercury Vapor Analyzer

## Features

- Accurate analysis of mercury vapor in 10 seconds.
- Operates up to four hours on fully charged batteries.
- Portable, rugged, easy to operate.
- Digital readout of mercury vapor in  $\text{mg}/\text{m}^3$ .

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## Specifications

### Dimensions:

6"W x 13"L x 4"H  
152.4mm x 330.2mm x 101.6mm

### Weight:

5 pounds  
2.3 kg

### Power Requirements:

115VAC or 230VAC, 115 watts maximum

### Internal Battery Pack:

Rechargeable nickel-cadmium

### Digital Meter:

Liquid crystal display

### Range:

0.000 to 1.999  $\text{mg}/\text{m}^3$  Hg

### Flow Rate:

750 cc/min

### Sensitivity:

0.003  $\text{mg}/\text{m}^3$  Hg

### Precision:

5% relative standard deviation at  
0.107  $\text{mg}/\text{m}^3$  Hg

### Accuracy:

$\pm 5\%$  at 0.107  $\text{mg}/\text{m}^3$  Hg

### Response Time:

Sample mode: 10 seconds  
Survey mode: 1 second

### Operating Environmental

#### Range:

0-40°C, non-condensing,  
non-explosive

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## Applications

Mercury surveys, hazardous waste monitoring, mercury exclusion testing, applied research projects

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## Accessories

- Maintenance kit: Includes items required for routine maintenance
- Functional test kit
- Carrying cases: hard case and soft field case



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Manufacturers of Computrac® Moisture Analyzers and Jerome® Toxic Gas Analyzers