

Buck Scientific 410 Cold Vapor Mercury Analyzer

Perfect for EPA method 245.1

Overview

The Model 410 Mercury Analyzer System incorporates the Hatch & Ott Cold Vapor Technique for the analysis of trace levels of mercury in drinking, surface and saline waters, as well as domestic and industrial wastes.



Features

- Detection limit 10 PPT
- 400mm Flowcell for lower detection levels
- Complete analytical system includes Hg Cold Vapor Kit
- Affordable price perfect for labs with limited budget
- Quick analysis and recovery time
- Up to eight point calibration curve
- Push button *Quick-Purge* for flow cell flushing
- RS232, Printer and analog recorder output
- Simple to use — minimal operator training
- D2 Background correction
- Toll-free technical assistance

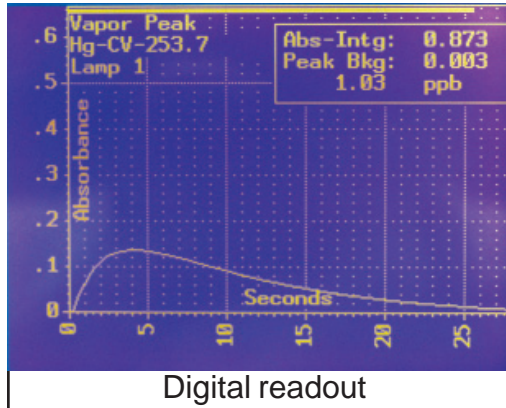
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Toll Free 800-562-5566 ~ Tel# 203-853-9444 ~ Fax# 203-853-0569

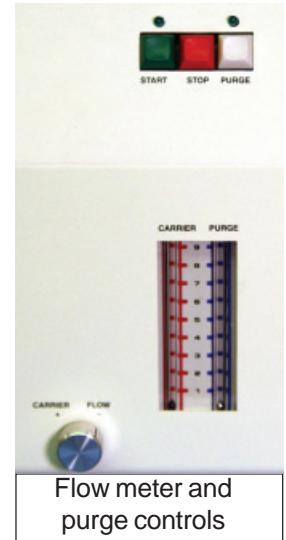
Summary of Method

This method is based on the absorption of radiation by mercury vapor at the 253.7nm line. The mercury is first reduced to the elemental state using the procedure outlined in EPA method 245.1. Air is then bubbled through the sample, speeding the mercury vapor to the



absorption cell. The 253.7nm mercury line emitted by the lamp is absorbed by the vapor in the cell in proportion to the mercury concentration. The result is transmitted to the

Digital readout which can be read directly in concentration of mercury. The instrument has a built-in "Peak-Picker" which reads peak area. The operator records this reading before purging. The instrument is then ready for the next sample.



Specifications

Detection Limits: *10 PPT

* *In a clean lab environment*

Absorption Cell: 400 mm pathlength with silica windows

Power

Requirements: 115/220V.A.C, 50/60Hz, 80 watts

Dimensions: 39"W x 11"D x 12"H

Weight: 45 lbs.

Output: RS232 and Analog

Background Correction: In-line Deuterium Lamp

Delivery system: Includes air dryer and charcoal filter

1-800-562-5566

58 Fort Point Street • East Norwalk, CT 06855
Phone: 203-853-9444 • Fax: 203-853-0569
E-mail: sales@bucksci.com • Homepage: www.bucksci.com

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