

## Model 2600 NG Mercury Cartridge Analyzer



- Dedicated analyzer for manually exposed sampling cartridges:
  - Ambient Air (US EPA Method IO-5)
  - Natural Gas (ASTM D-6350)
  - Process gases
- Typical MDL < 1 ng/m<sup>3</sup>
- Sample path optimized for difficult matrices

The **Tekran<sup>®</sup> Model 2600 NG Mercury Cartridge Analyzer** is designed for the analysis of gas phase sample cartridges. The system contains an atomic fluorescence detector, a dual stage thermal desorber and a data acquisition & control system. A single serial connection allows a Windows<sup>®</sup> based PC to control the entire analysis process, acquire the detector output and calculate final results.

### Features

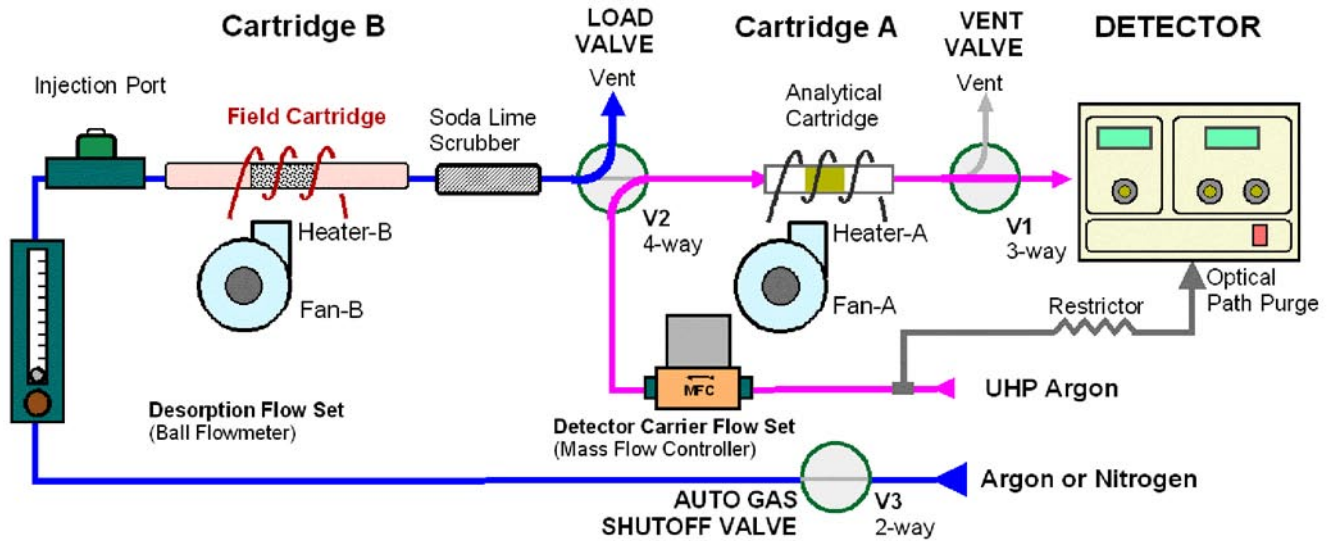
- Desorbs industry standard 1/4" OD x 5" to 6" long friction fit cartridges
- Ultra sensitive Atomic Fluorescence (AF) detector
- Dual stage gold preconcentrator/thermal desorber
  - Continuously variable heaters allow ramped heating
  - Internal cooling fans provide faster cycle time
  - Teflon Bypass & Load solenoids reduce sample path contamination
- All Teflon & glass sample train
- Precision mass flowmeter gives superior long term stability
- Auto carrier shutoff to conserve carrier gas
- 24 bit A/D converter provides wide dynamic range
- Controlled by any Windows<sup>®</sup> based PC through single serial port
  - Notebook PC allows portable operation
- Automated desorption cycle
- Fully programmable desorption cycle parameters
- Calibration using any saturated vapor injection source eg: **Tekran Model 2505**, (not included)
- Final results calculation directly in ng/m<sup>3</sup>

### Applications

- Ambient Air Sampling (US EPA IO-5)
- Natural Gas (ASTM D-6350)
- Process Gas Sampling

# Model 2600 NG Mercury Cartridge Analyzer

## Flow Diagram



## Specifications

### Physical

- Size: 11" H x 9" W x 17" D (Cover closed)
- Weight: 30 lb (14 kg)
- Power: 100 - 120 or 220 - 240 VAC, 50 - 60 Hz, 250 VA max.

### Environmental

- Operating Range: +15 - +30°C
- Storage Temperature: +5 - +45°C
- Altitude: 0 - 2000m
- Humidity: 10 - 95% (Non condensing)

### Detector

- Detection Limit: <0.1 pg Hg
- Linearity: >10<sup>5</sup>
- Carrier Gas: Argon UHP Grade
- Flow Range: 0 - 500 ml/m (ball flow meter)  
0 - 500 ml/m (MFC)
- Supply Pressure: 30 PSI
- Fittings: 1/8" Compression fittings
- Warm-up Time: <30 min

## Ordering Information

The **Model 2600 NG Mercury Cartridge Analyzer** includes the following standard components and accessories:

- Control Unit
- User Quick Start Guide
- One gold coated field cartridge
- Tekran-MDS Windows® control software
- Full H/W, S/W and methods documentation

## Options

- **Opt. 001** Extra gold coated sampling cartridge (friction fit)
- **Opt. 201** Dell *desktop* PC for control of system
- **Opt. 202** Dell *notebook* PC for portable applications



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