

Model 2600-NG - Mercury Cartridge Analyzer

Rev. 041814

**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/m³

Sample path optimized for difficult matrices

The **Tekran® Model 2600-NG Mercury 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 based PC to control the entire analysis process, acquire the detector output and calculate final results.



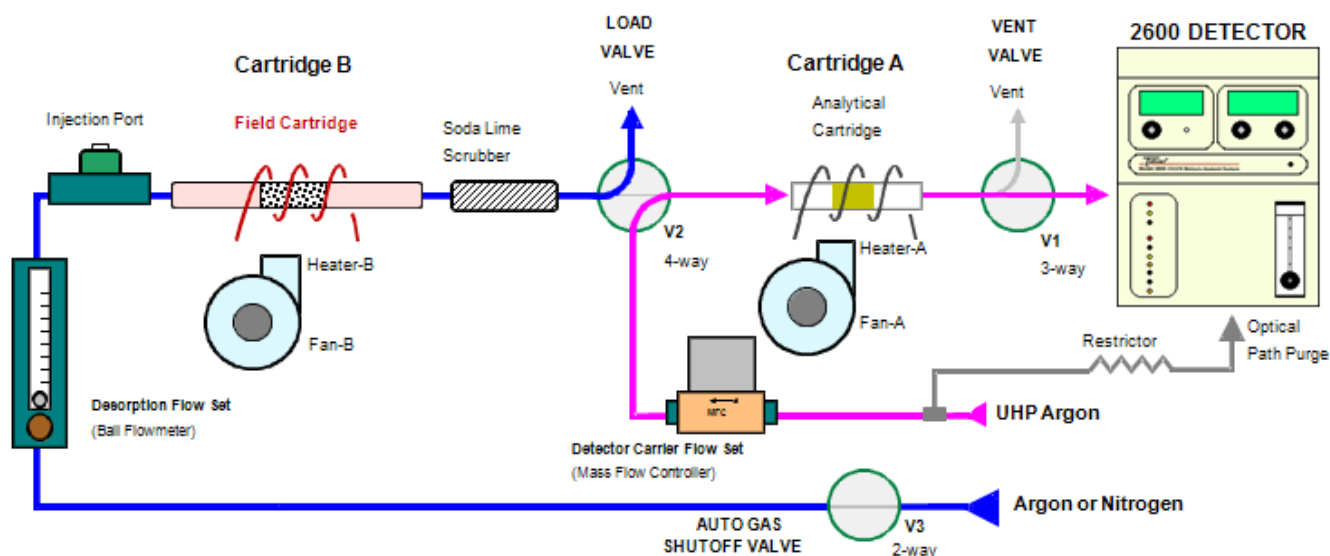
Features

- Desorbs industry standard ¼" 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™ 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/m³

Applications

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

Flow Diagram



Specifications

Physical

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

Environmental

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

Detector

Detection Limit:	< 0.1 pg Hg
Linearity:	> 10 ⁵
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** includes the following components and accessories.

- Control Unit
- User Quick Start Guide
- One gold coated field cartridge
- Tek-MDS2 Windows based control software
- Full H/W, S/W and methods documentation

Options

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

Due to continuing development, all specifications are subject to change.