

## New Generation - Tekran Model 2537Xi

Rev. 022718



### Electronics Platform

- Network enabled
- Touch screen interface
- Local data storage and front panel USB port
- Remote access (troubleshooting, control and configuration)
- Improved data and instrument parameter logging
- Additional functionality via optional s/w plugins (std. additions, remote valve control, and much more)

### Detector

- New lamp stabilizer and detector electronics
- Easy cuvette removal via convenient fitting interface
- Improved stability
- Digital PMT control and display

### Permeation Source

- Lower dead volume permeation chamber
- Valve improvements to reduce pressure effects
- Digital perm source set point and display

### Cartridge / Valve Assembly

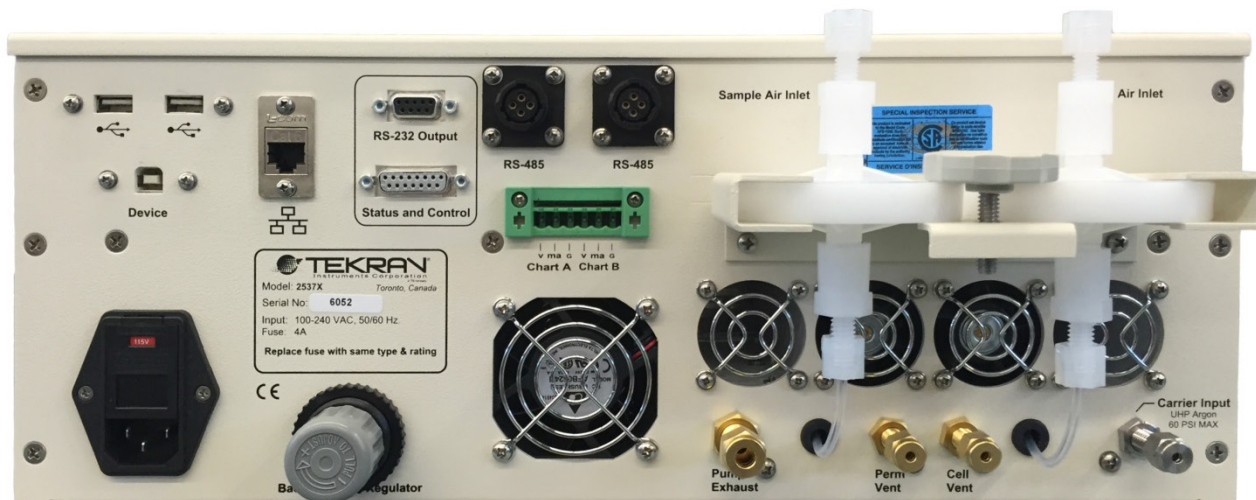
- New valve assembly with low dead volume
- Constant power heater control insures consistent temp over heater life
- Faster cool down time with independent high-velocity channelled fans

### Physical Layout

- Reduced height from 5U (8.75") to 4U (7")
- Improved component accessibility for routine maintenance

**100% Compatible with prior 2537 units and 3300 systems**

## Back Panel Descriptions



USB Host Ports (2)

Network Port (1)

Analog Chart Outputs (2)

Status and Control Input (1)

USB Device Port (1)

RS-485 Ports (2)

RS-232 Serial Output (1)

Sample and Gas Inputs (3)

## Specifications (Beta)

Analyte: TGM (Total Gaseous Mercury) with speciation available from the 3321 Sample Conditioner in a 3300Xi system.

Principle: Gold pre-concentration with atomic fluorescence detection.

Sensitivity: < 0.1 ng/m<sup>3</sup> (5 min samples)

Sampling Cycle: 2.0 – 60 min (2 – 15 min recommended)

Sampling: Continuous (no data stream gaps)

Outputs: See Above, plus Modbus from CEM-Plus software

Sample Flow: 0.2 – 0.5 L/m

Flow Totalization: Precision mass flowmeter (MFM)

Pump: Internal, variable speed (MFM feedback loop control)

Carrier Gas: Argon

Consumption: 200 L/day (full size tank lasts 5 to 6 weeks)

Carrier Setpoint: Precision mass flow controller. Carrier flow is set to one of 3 settings during each desorption cycle. MFC provides superior stability and accuracy.

Calibration: Automatic using internal permeation source.

Manual injection port also provided

Physical: Self-contained. 19" rack mountable (4U height)