

New Generation - Tekran Model 2537Xi

Rev. 080420



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

- High sensitivity CVAFS detector with improved stability
- New lamp stabilizer and detector electronics
- Easy cuvette removal via convenient fitting interface
- 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

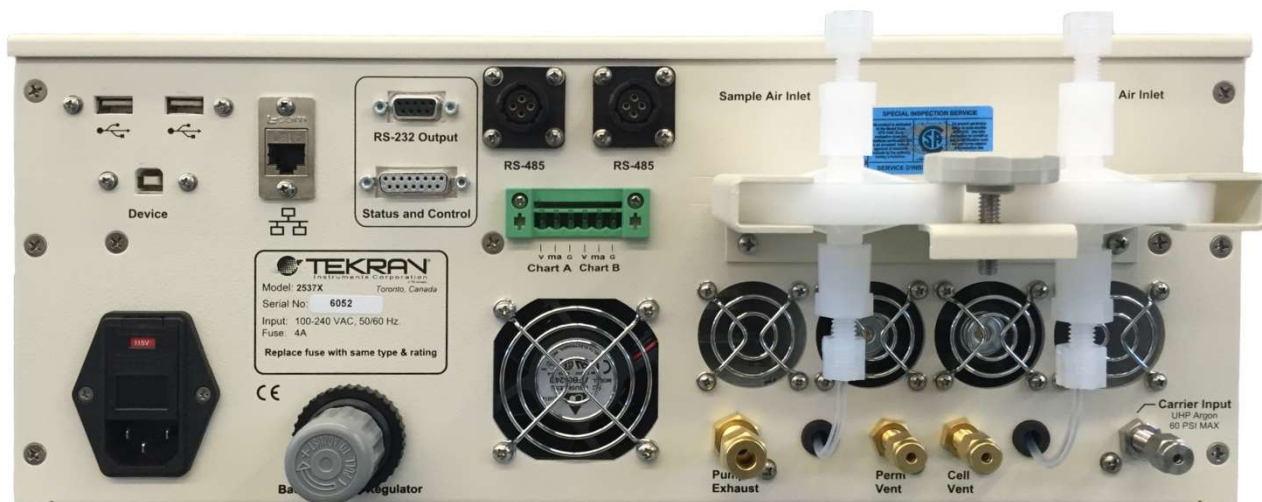
- New valve assembly with low dead volume
- Constant power heater control insures consistent temp over heater life
- Faster cool down time with independent high-velocity channelled fans

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/m³ (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)