

New Generation - Tekran Model 2537X

Rev. 080420



Electronics Platform

- Network enabled
- Touch screen interface
- Local data storage and front panel USB port
- Remote access (remote control and s/w updates)
- 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
- Improved stability with 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 1130/1135 systems



Back Panel Descriptions

USB Host Ports (2)	USB Device Port (1)
Network Port (1)	RS-485 Ports (2)
Analog Chart Outputs (2)	RS-232 Serial Output (1)
Status and Control Input (1)	Sample and Gas Inputs (3)

Specifications (Beta)

Analyte:	TGM (Total Gaseous Mercury)
Principle:	Gold preconcentration with atomic fluorescence detection.
Sensitivity:	< 0.1 ng/m ³ (5 min samples)
Sampling Cycle:	2.0 – 60 min (2 – 15 min recommended)
Sampling:	Continuous (no data stream gaps)
Outputs:	See Above
Sample Flow:	0.7 – 1.5 L/m
Flow Totalization:	Precision mass flowmeter (MFM)
Pump:	Internal, variable speed (MFM feedback loop control)
Carrier Gas:	Argon
Consumption:	100 L/day (full size tank lasts 2 to 3 months)
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)