

New Generation - Tekran Model 2537X

Rev. 022525



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



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

- Analyte: TGM (Total Gaseous Mercury)
 Method: Fully compliant with EN 15852
 Principle: Gold preconcentration 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
 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)