Tekran Model 2537Xi-NG

Rev. 040522

Key Features

- Complies fully with ASTM-6350 and ISO-6978
- Unique dual-bed gold-quartz trap and pure gold analytical cartridge
- Analytical cartridge never exposed to sample gas for clean operation
- Multiple automated QA routines validate method performance
- Range 1 ***ng***/m^3 to 2000 ***ug***/m^3
- Network enabled for remote operation

Electronics Platform and Detector Features

- Touch screen interface
- Local data storage and front panel USB port for data retrieval
- Additional functionality via optional s/w plugins (i.e. valve multiplexer)
- New lamp stabilizer and detector electronics w/ digital PMT control and display
- Easy cuvette removal via convenient fitting interface

Flow Path – Calibration – Quality Assurance Features

- Valve assemblies with low dead-volume and inert PEEK surfaces
- Integrated sample and breakthrough trap assessment with option for single or combined heat provides options for measurement and QA assessment
- Constant power heater control insures consistent temperature over heater life
- Unique design isolates analytical trap from complex natural gas matrix; the trap is only exposed to carrier gas for improve accuracy, precision and robustness
- Integrated permeation source allows assessment of trapping efficiency, matrix effects, and routine automated calibration.

Physical Layout

- Instrument case design allows free air exchange throughout instrument to improve overall safety rating
- Improved component accessibility for routine maintenance

Order & technical support :
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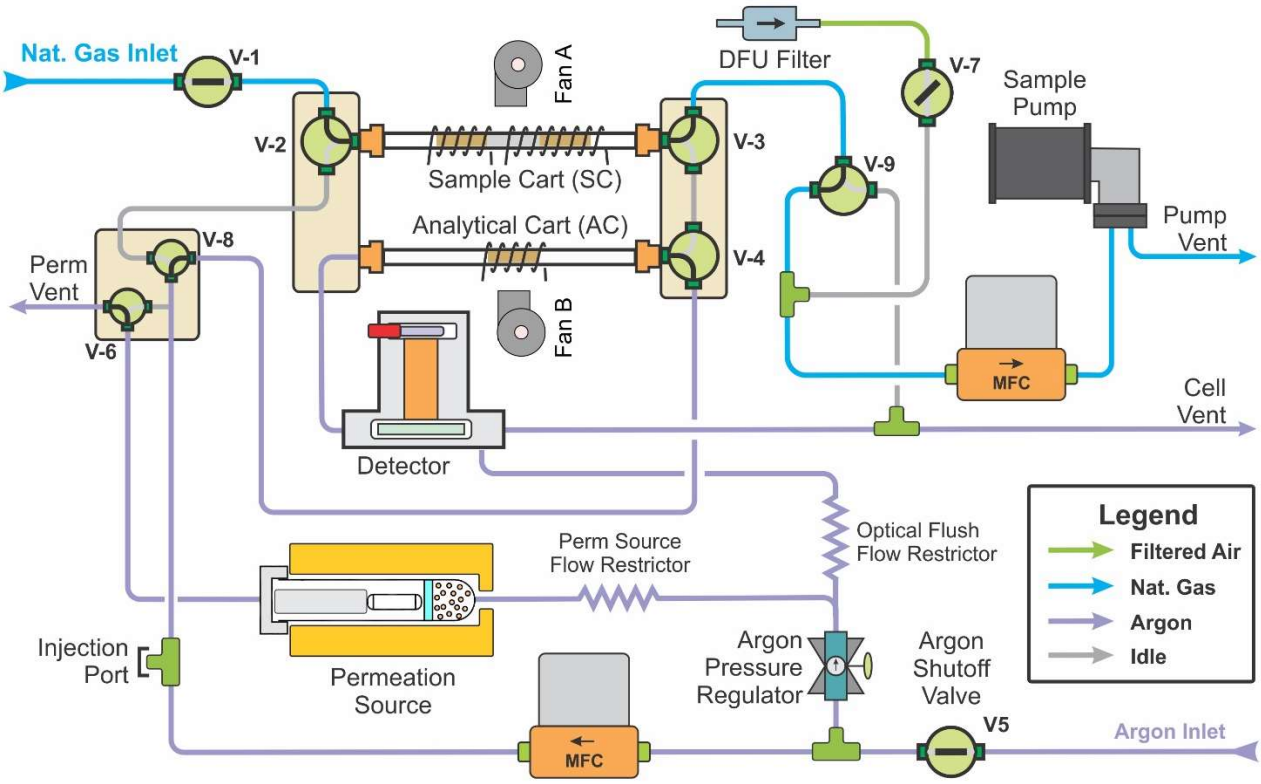

Specifications

Analyte:	Total gaseous mercury in natural gas
Principle:	Dual-bed gold pre-concentration with CVAFS detection.
Range:	1.0 **ng**/m^3 to 2000 **ug**/m^3
Sampling Cycle:	2.0 – 60 min
Sampling:	Alternating sample collection and analysis cycles
Data Outputs:	Network (1), USB Device (1), USB Host (2), RS-485 (2), RS-232 (1), Analog Chart (2)
Sample Flow:	0.1 - 0.5 L/min with 5 psi (max) inlet pressure
Flow Totalization:	Precision mass flow controller (MFC)
Pump:	Internal, variable speed (MFC feedback loop control)
Carrier Gas:	Argon or Nitrogen
Consumption:	~125 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 **multi-point** calibration using internal permeation source. Manual injection port also provided
Physical:	Self-contained with maximum internal and external case venting. 19” rack mountable (4U height)