

Tekran NG-80 Online Natural Gas Hg Monitor

Rev. 041822

Key Features

- Class 1 Div 2 cabinet for use in hazardous environments
- ASTM-6350 and ISO-6978 method compliant
- Dual-bed gold sample trap design avoids analytical gold cartridge exposure to complex sample gas
- Multiple automated QA routines validate method performance
- Range of 1 *ng*/m³ to 2 *mg*/m³
- Network enabled for remote operation
- Cabinet integration and design by Tekran Partner



Tekran NG-80 (Door Closed)

Electronics Platform and Detector Features

- Instrument touch screen interface does not require PC for operation
- Local data storage, front panel USB port, and remote access for data retrieval
- Additional functionality via optional s/w plugins (i.e. valve multiplexer)
- Digital lamp and detector electronics w/ remote control and display

Flow Path – Calibration – Quality Assurance Features

- Low dead-volume valve assemblies with inert PEEK surfaces
- Integrated sample and breakthrough trap assessment with option for single or combined heating to provide measurement and QA assessment options
- Constant power heater control insures consistent temperature over heater life
- Unique design isolates analytical cartridge from complex natural gas matrix; the cartridge is only exposed to carrier gas for optimal performance and robustness
- Integrated permeation source allows assessment of trapping efficiency, matrix effects, and routine automated calibration

Physical Layout

- Instrument and enclosure design allows free-flowing inert purge gas exchange throughout instrument to improve overall safety rating
- Simple access to serviceable components like cuvette and gold cartridges



330 Nantucket Boulevard, Toronto, Canada M1P 2P4 lab-air-info@tekran.com Tel:+1-416-449-3084 Fax: +1-416-449-9298

Toll Free: (US and Canada) 1-888-583-5726 (1-888-5-TEKRAN)



Tekran NG-80 (Door Open)



Tekran NG-80 (Instrument Down)

Specifications

Analyte:	Total gaseous mercury in natural gas
Principle:	Dual-bed gold pre-concentration with CVAFS detection.
Range:	1.0 ng /m ³ to 2.0 mg /m ³
Sampling Cycle:	2.0 – 60 min
Sampling:	Alternating sample collection and analysis cycles
Data Outputs:	Network (1), USB Device (1), USB Host (3), 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)
Carrier Gas:	Argon or Nitrogen
Consumption:	~125 L/day (full size tank lasts 2 to 3 months)
Carrier Setpoint:	Precision mass flow controller provides dynamic control of carrier flow during each desorption cycle. MFC delivers superior flow 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)