

Innovation Starts In The Lab

Tekran® Series 2700

Automated Methyl Mercury Analysis System

- *Improves Laboratory Efficiency*
- *Intuitive & Reliable Software Interface*
- *Fully Integrated, Self Contained & Compact*
- *New Electronics Platform*
- *Free Lifetime Technical & Analytical Support*



Ultra Sensitive Measurement
MDL of 0.004 parts per trillion (ppt)


TEKRAN®
Instruments Corporation
WHERE MEASUREMENT BEGINS™

A Superior Design Offers Unsurpassed Analytical Performance & Flexibility



The Tekran® 2700 has been designed to give analytical laboratories and researchers an efficient alternative to the time-consuming and complex EPA 1630 manual method.

Tekran® Instrument Corporation introduces the new Tekran® Series 2700 Methyl Mercury Auto-Analysis System. The 2700 offers a fully integrated, self-contained compact unit based on atomic fluorescence detection and operated via state-of-the-art software.

Superior Atomic Fluorescence Detector

The 2700's fluorescence detector features all new electronics, flow cell and optical filter to improve the already extraordinary sensitivity, stability and selectivity. The UV lamp is temperature controlled. An optical feedback arrangement ensures constant lamp intensity over the course of the run and from day to day. The AF detector has an argon optical path purge and highly sensitive photomultiplier. No other mercury detector incorporates all these features.

Expert Support

The Series 2700 comes with a Quick Start Guide that will have you up and running in minutes. The system enclosure has been specially designed to allow easy access to all serviceable components. Ask about our on-site setup and training capabilities. We offer remote system evaluation, optimization and testing along with unlimited telephone/email support in the event you require assistance. Your 2700 will be supported by a full team of Tekran® application scientists, researchers and engineers with a combined 80+ years of expertise in mercury analytical systems.

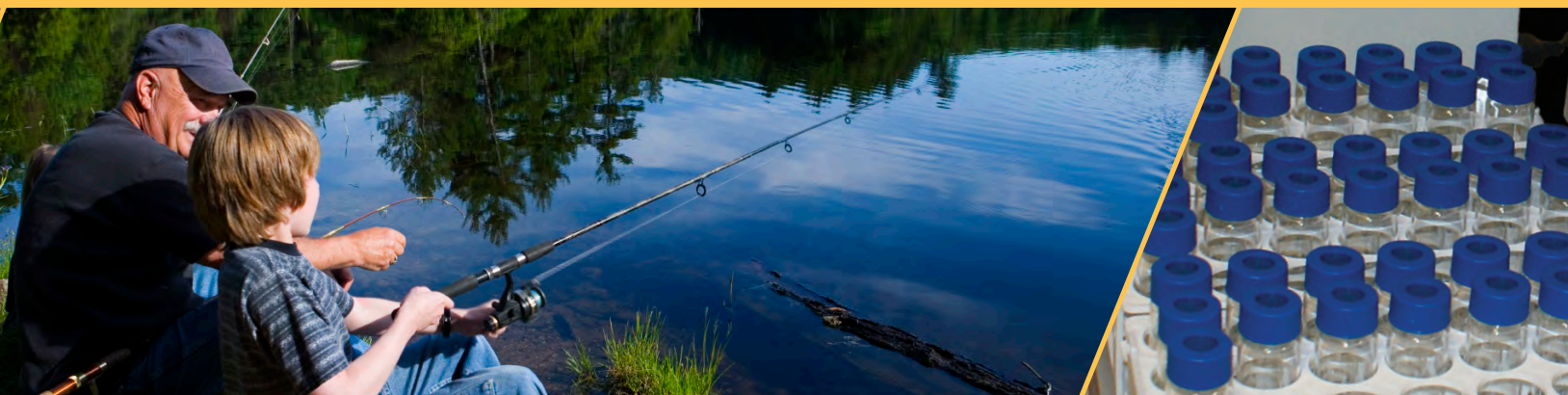
Designed for Flexibility

The 2700 comes ready to operate with a standard EPA Method 1630 compliant analytical setup. However the flexibility of the 2700 is unsurpassed allowing customization for specific applications. The fully-integrated gas chromatography (GC) oven is programmable and accepts both capillary and packed GC columns. Oven temperature ramping and a capillary GC column yield extremely well defined peaks. Fully programmable analysis cycle parameters provide researchers an unparalleled ability to create modified and experimental analytical methods. It will also interface seamlessly with other analytical instruments.

Intuitive Software Interface

The Tekran Series 2700 software is based on our successful Tek-MDS-2 platform and comes installed to run standard EPA Method 1630. Our software is developed and supported in-house by our team of full-time programmers. The new application is fast, reliable and offers a wide range of capabilities including: 1) Software access to hardware settings, 2) Automated flushing of the system in case of high samples, 3) Ability to export data in numerous formats and 4) Full charting of system process.

Fast & Accurate Software Takes Performance to a New Level



Tekran 2700 Auto-Analyzer Features:

- Highly sensitive, ultra-stable CVAFS Hg detector
- MDL of 0.004 ppt (25 mL Sample)
- Built-in GC oven (isothermal or ramped heating)
- IR trap heating and active cooling
- Syringe drive for precise volumetric injection
- Liquid detector halts system if water enters gas lines
- Heated valve manifold prevents potential losses
- Interfaces to ICP-MS to yield isotopic ratios of methyl mercury

Tekran 2700 Software Features:

- Based on highly regarded, intuitive Tek-MDS-2 platform
- Superior chromatographic peak processing
- Will export data in multiple file formats
- Developed inside Tekran and fully supported
- EPA Method 1630 comes standard
- Alternative methods are available
- Fully programmable analytical sequences for special applications
- Automated troubleshooting and flushing sequences

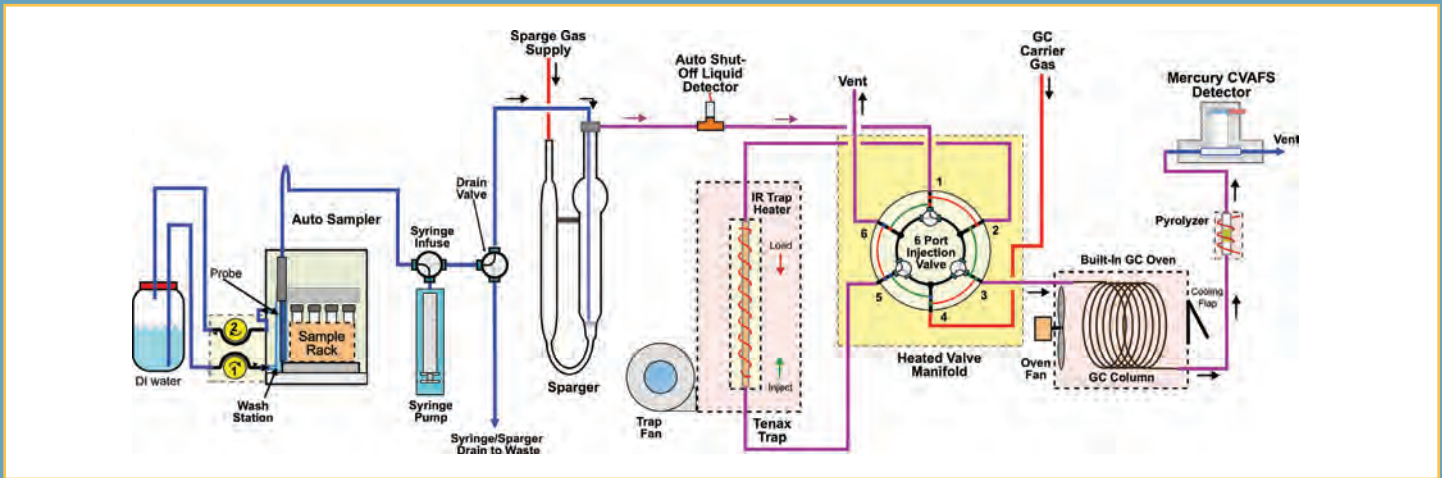
Free Lifetime Technical & Application Support

Tekran® 2700 owners enjoy free lifetime technical and application support by a team of analytical chemists with a combined 45+ years of specializing exclusively in mercury analysis.



Tekran's proprietary software is included with every 2700 Auto-Analyzer.

Durability Through Robust Hardware Design



FLOW DIAGRAM FOR TEKTRAN 2700

Typical Applications:

- Distilled water samples by EPA Method 1630
- Natural water samples by direct ethylation
- Fish, sediments and biota samples
- Dimethyl mercury in landfill gas
- Examination of other organo-Hg species
- Isotopic ratios combined with ICP-MS

Key Specifications:

- | | |
|---------------------------------------|-------------------------------|
| • Detector Type | CVAFS |
| • Method Detection Limit | 0.004 ppt (ng/L) |
| • 2700 Footprint | 14" X 20" (35 X 51 cm) |
| • 2621-M Autosampler Footprint | 11" X 19" (28 X 48 cm) |
| • Power Requirements | 1625 Watts (Max) |
| • Sample Run Time | < 8 minutes |



For North American Sales & Service, please contact us at:

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