

NEW Product! - Tekran 2600H Total Hg Analysis System

Rev. 072926

TEKRAM 2600H IN-VIAL SPARGE

Method 1631 (Dual Gold Trap CVAFS)
Method 245.7 (Direct CVAFS detection)
US EPA IO-5 (Ambient Air)
ASTM D-6350 or (Natural Gas)
ISO 6978-2

Tekran equipment is manufactured under US and foreign patents and patents pending



The **Tekran 2600H CVAFS Analytical System** is the most versatile and dependable analyzer in the Tekran product line – and has now been fully re-designed. Always striving to improve our products, the new analyzer offers a host of improvements. The 2600H system maintains direct in-vial sparging while offering improved connections for all glass components in the system. Serviceability is also greatly improved with direct access to the instrument detector via a magnetic front cover and extendable detector tray. Additionally, the instrument incorporates a large front display panel to present the user with real-time feedback of instrumental function. Just like previous 2600 systems, the 2600H maintains the same instrumental configurations for a suite of mercury quantification methods including EPA 1631, EPA Method 245.7, EPA Method IO-5, and ASTM D-6350 or ISO 6978-2.

Some selected Tekran 2600H features are summarized below:

- Large front display screen for improved hardware readback and control
- Fully redesigned lamp board with unified lamp drive and detector electronics
- Greatly improved access to internal electronics
- Integrated injection manifold for detector auditing and gas-based methods
- No liquid transfer; direct Hg sparging with gas-only operation
- Built-in liquid detection automatically halts operation to protect sensitive components
- Modular design allows autosampler to be shared with the Tekran 2700

The Tekran 2600H uses sealed septum vials as the reaction vessel for tin chloride reduction chemistry. The Tekran 2600H automates sparging and analytical processing. With direct sparging, there is no need for a peristaltic pump or phase separator - mercury is sparged directly from the septum vial. This provides cost savings on hardware components, reduces analytical gas consumption, and eliminates consumable items such as pump tubing, fittings, and sample lines. The 2600H configuration is more streamlined and easier to operate.

The Tekran 2600H configuration capitalizes on the significant changes to the analytical technique. With sparged liquids remaining in the analysis vials, it is not necessary to flush the sample lines with rinse solutions between samples. This speeds up the analytical cycle and dramatically reduces the waste solutions produced by the instrument. A single vial filled with de-ionized water is the only requirement for external rinsing of the septa-piercing probe. Additionally, all interfaces with glass components now use PEEK manifolds with incorporated O-rings for leak-tight seals and secure connections.

The 2600H system uses automated processes to maintain cleanliness. Following sample loading, carrier gas is back-flushed through the sample lines to keep them clean. Eliminating liquid contact with sample lines helps keep the system pristine, greatly reducing risk of sample carryover. The direct in-vial sparge configuration of the 2600H system eliminates phase separator and pump unit components and minimizes sample line connections. The simplified construction improves system maintenance activities for the end user, resulting in a more user-friendly system.

Tekran 2600H System Images (Method 1631 Configuration)



The 2600H system is controlled by a completely re-designed operation software called Tekran Mercury Laboratory Software – or Tek-MLS. This software takes advantage of new features like liquid detection system and detector block upgrades. The software is now a unified platform capable of controlling all Tekran laboratory analyzers including 2600H, 2600-IVS, and 2700 systems. This software includes pre-configured methods including EPA 1631, EPA 245.7, EPA IO-5, and ASTM D6350 or ISO 6978.