

Tekran CMMS Services

Field Tested. Field Proven. Field Ready.



Field Services

- 24/7 Service Availability
- Phone Support
- RATA Support
- Emergency Service



System Services

- System Installations
- Industrywide DAS Support
- Training Classes - Onsite & Remote
- Custom Maintenance Agreements
- Remote Diagnostics



Calibration & Maintenance

- NIST Traceable Service Center
- System Repairs & Scheduled Maintenance
- Component Warranty Service Center
- Scheduled Consumables Delivery
- Spares Inventory Program
- Component Exchange Programs



Mercury CEM Parts

- Large Parts Inventory
- Same Day Shipment on Most Orders
- Afterhours Parts Availability



Tekran® Series 3300 Mercury Continuous Emissions Monitor

Field Tested. Field Proven. Field Ready.



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

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www.tekran.com

Tekran® Instruments: Where Measurement Begins™



The Tekran® Series 3300 CEMS is in place at over 200 sources in the U. S. We have demonstrated proven results for each customer's state and federal requirements. Our CMMS technology is driven by over 20 years of laboratory and ambient instrumentation used by hundreds of global customers. Tekran is the most experienced mercury monitoring resource in the world and continue to take the lead in mercury compliance monitoring, abatement system control and mobile testing systems.

Leading the way

Tekran's Mercury CEM system, the first commercially available, is the performance leader in EPA, Department of Defense, and utility trials – outperforming all competitors during rigorous testing.

Longest Continuous Field Operation - since 2003

The Series 3300 has the longest demonstrated uptime of any system on the market - deployed and continuously operating at multiple sites in North America, achieving 97% annual unattended system availability. Additionally, Tekran is the only major supplier of a mercury CEMS that has decades of experience with mercury monitoring. Founded in 1989, Tekran® manufactures a variety of ultra-trace mercury monitoring instrumentation. The company has a long history of producing leading-edge environmental monitoring equipment.

#1 provider of Continuous Mercury Monitoring Systems—worldwide

Since 1992, Tekran's patented technology has been sold across the globe in over 30 countries.

Powered by TSI: A global leader in engineering and instrument manufacturing

Joining the TSI family of companies, with their industry-leading expertise in measurement, monitoring and reporting for the power and manufacturing sectors, enhances Tekran's ability to deliver large-scale power generation implementations from 1 to 60 installations. Together, Tekran and TSI offer customers over 30 years of combined experience.

Low Cost of Ownership and Maintenance

With years of development experience, Tekran offers a system that maximizes system up-time, while minimizing maintenance costs. The robust design, careful engineering and unique calibration and control system of the Series 3300 Mercury CEMS minimizes the costs of maintenance and annual consumables.

Series 3300 Mercury Continuous Emissions Monitor

The Tekran Series 3300 system is ideally suited for compliance monitoring, abatement system control and mobile testing systems.



The Tekran® Series 3300 CEMS is the industry's first field-tested, field-ready mercury emissions monitoring solution. With proven performance under the widest variety of stack conditions built on years of manufacturing expertise, Tekran's mercury measurement technology sets the standard in continuous emissions monitoring.

Model 3340 Dilution Probe Controller

Tekran's Model 3340 Probe Controller is the perfect mating device for the M&C probe and the 3300 CMM. Our controller offers probe operation and performance indications while providing fail-safe protection coordinated by our system controller. Dilution and bypass air supplies are interrupted while zero air floods the probe during failure conditions that are detected by the controller. Dual purge pathways support matching features on the Tekran version of the M&C probe while orifice pressure sense lines are reverse flushed every purge cycle. Bypass air flow local indication is augmented by dilution and bypass air pressures and orifice inlet and outlet pressures for supervisory and compensation purposes. The 3340 controller coupled with the 3342 version of the M&C probe make up the perfect functional interface to operate with the Tekran 3305 system controller.

Model 3305 CEM Controller

Tekran's newest Model 3305 System Controller offers PC-free control of the 3300 CMM but retains the features most requested by our users. The 3305 incorporates touch screen technology, software generated QWERTY keyboard, and optional mouse/keyboard hardware for full system navigation. Tekran's color graphics interface and remote accessibility are available in the 3305 without PC overhead - hard drives, security issues, operator abuse, and IT department involvement. The included UPS will run the controller for up to 20 minutes and execute an orderly shutdown in the event of a power failure to the 3300 rack. Integrated data output capabilities and update functionality via USB 2.0 ports make the 3305 simple to configure and download.

Model 2537S Mercury Vapor Analyzer

The two conditioned streams are analyzed using a Tekran Model 2537S mercury vapor analyzer, utilizing pure gold preconcentration and cold vapor atomic fluorescence detection. The unit is in wide use around the world and has proven accurate, stable and reliable under the most remote and rugged conditions. Designed for years of continuous use, Tekran's patented pure gold cartridge is immune to memory effects and will not degrade over time like other cartridges constructed with gold sand, silica or wool.

Model 3310 Elemental Mercury Calibrator

Tekran's Model 3310 Elemental Mercury calibration source allows single and multi-point calibrations and standard additions (spiking) to be automatically initiated, allowing calibration of the entire CEMS path. Based on fundamental physical properties, Tekran's unique approach provides long-term stability and precisely known delivery rates allowing continuous validation of the system.

Model 3315 Oxidized Mercury Calibrator

Tekran's newest Calibrator generates ionic Mercury calibration gas by first vaporizing a NIST traceable supply of liquid reagent then blending the vapor with air. A second liquid path in the 3315 provides the ability to vaporize water from an existing supply to hydrate the calibration gas sample. Hydration of the output of our 3310 elemental calibrator can also be accomplished by the 3315. No concerns for incomplete chemical reactions impede the 3315 form producing dependable, repeatable, traceable calibration gas made up of Mercuric Chloride, air and/or water. Injection rates are completely adjustable for today's Mercury monitoring needs.

Model 3320 Sample Conditioner

The conditioning module separates the mercury into elemental (insoluble) and ionic (water soluble) species. Recombination and interference is avoided by the removal of acid gases by Tekran's patented thermal conditioner/scrubber system, which requires no chemical reagents. This cutting edge system allows for measurement of both total mercury (Hg⁰) and elemental mercury (Hg²⁺) directly, while determining ionic mercury (Hg²⁺) by difference.

Model 3342 Non-Inertial Probe

Tekran's Model 3342 probe is a specially designed version of the M&C SP2006 molded block probe. We've maintained all the features from the M&C line but added some additional and necessary features to help adapt the probe to Mercury measurement work. All sample wetted components are Silicone Oxide coated to discourage Mercury adsorption by reactive metals in the sample path. The dual blow back option has become a standard for Tekran in an effort to continuously clean the probe's primary filter as well as the interior of the extended stinger. Hastelloy C276 alloy has been used everywhere the probe's outer body and mounting flange come in contact with flue gases and all other components are 316L stainless steel, maximizing the probe's longevity in service. Probably the best Mercury adaptive feature is the incorporation of sintered Titanium as the primary filter material of choice thus employing a medium known to be inert to the measurement process. The addition of a high temperature calibration gas steering valve allows the admission of gas before and after the primary filter providing the ability to determine the loss of Mercury across the filter remotely providing the operator with the ability to be proactive when dealing with determining the need for filter service.

