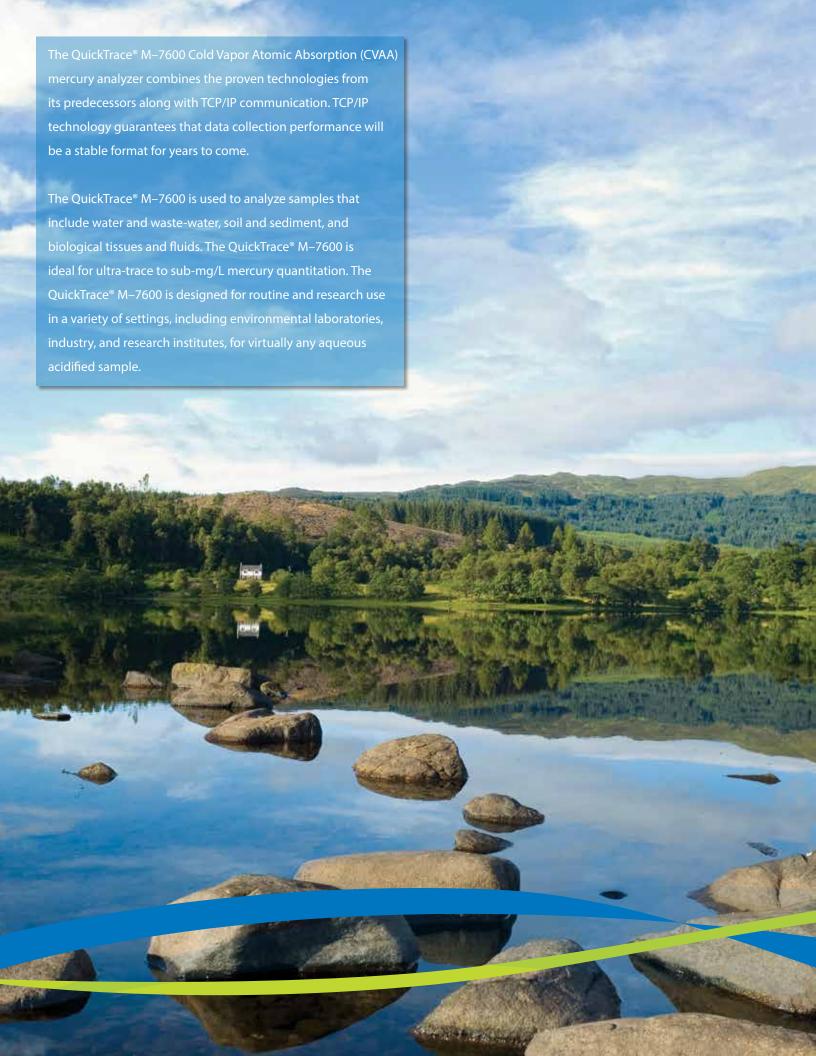




Quick Trace® M-7600

CVAA Mercury Analyzer



# Key Features of the QuickTrace® M-7600

- Non-foaming Gas Liquid Separator (GLS) with overflow prevention system
- TCP/IP communications per laboratories preferences
- Advanced contamination control, over range and smart rinse features
- Superior baseline stability with double beam optics
- Ozone free low vapor pressure mercury excitation lamp
- Analyze samples with or without an autosampler
- Unlimited QC sample positions
- Automatic end of run and inactivity standby routines
- 12-roller 4-channel peristaltic pump
- Sample volume 0.5 mL to > 20 mL
- High capacity mode of < 60 seconds per sample
- Intuitive OuickTrace® software



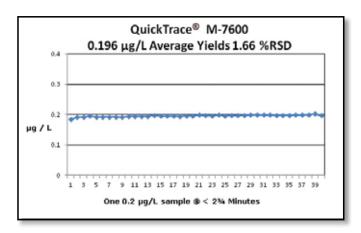
## **Performance**

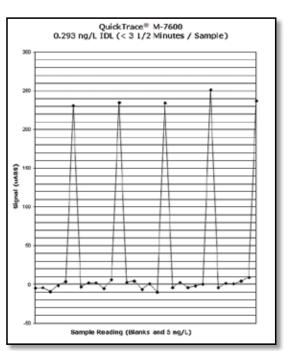
The QuickTrace® M–7600 mercury analyzer easily achieves the ultra-trace mercury detection limit of <0.5~ng/L. It is also versatile enough to analyze samples  $>500~\mu g/L$  without dilution. The QuickTrace® M–7600 is capable of switching between low mg/L and ng/L analysis without hardware or tubing configuration changes. Using the proven and reliable CVAA technique combined with multi-tasking Windows-based software package, the QuickTrace® M–7600 is the most stable and sensitive mercury absorbance analyzer available today. For ultra-trace analysis we recommend our autosampler enclosure to protect the samples from determinate errors such as dust particles. The autosampler enclosure will also protect your investment from the harsh acid gases normally present in and around digested samples.

- Ultra-trace detection limits (< 0.5 ng/L IDL)
- · Linearity greater than 4 orders of magnitude
- Dynamic range  $< 0.5 \text{ ng/L to} > 500 \mu\text{g/L}$
- Without employing our smart rinse technology the system is ready to accurately measure a sample within four minutes following the ingestion of a 1 mg/L sample
- Short term precision (%RSD @ 95% Confidence) < 6.0% @ 5 ng/L, n=5
- Short term precision (%RSD @ 95% Confidence) < 1.2% @ 20 ng/L, n=5

# Applications\*

EPA Method 245.1, 245.5, SW 846-7470 and SW 846-7471 ASTM Method; D3223, D3624, D3684, D6414, and D6784 EU Methods; Din ISO 16772, EN-13806, EN-1483, and ISO 12846







<sup>\*</sup>For a full list of applicable methods contact your sales specialist.

## QuickTrace®

Teledyne Leeman Labs has designed the multi-tasking QuickTrace® software package to be easy to learn, yet provide valuable features and flexibility while continuously adding customer requested features, truly making the software designed by the customer for the customer.

#### Features of the QuickTrace® Software platform:

- Microsoft® Windows® 10
- User defined method threshold for over range response values and smart rinse technology
- User defined smart rack technology within a given method. This technology allows the autosampler the use of racks varying in size from 90, 60, 40, 24 or 21 tube position racks for samples, standards or quality control
- True Multi-tasking
- Simultaneously run analyses, develop methods, and print reports
- EPA 245.7 and 1631 quality control compliant
- User defined blank acceptance criteria for EPA 245.7 and 1631
- Customizable quality control features
- User defined one or two point baseline offset correction

- Integrate via peak height or peak area
- Scheduled consumable maintenance tracking
- Data files are efficiently exported to a network via the Ethernet port for convenient linking to a laboratory information management system (LIMS)
- Data files can be emailed to, and opened by, a Teledyne Leeman Labs representative on a PC
- Online help for immediate software support
- Automatic detection limit calculation determine EPA defined IDL/MDL
- Real time exportable data-tracking log
- Individualized reports customize printouts by selecting from several parameters
- Master worksheets ready-to-run worksheets allow quick operation for new users









# **Technical Specifications**

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Microsoft® Windows® 10

2 GB RAM for Microsoft® Windows® 10

Video running 1024 x 768 with 24-bit color

Pentium Dual Core 2.3 GHz

One available USB port

One standard factory installed Ethernet connection, if a network connection is desired. One available slot for the supplied Network Interface Card (NIC) for the analyzer connection.

Internet Explorer 4 or higher must be installed for the online Help to function

Technical Specifications		
Carrier Gas (N <sub>2</sub> or Ar)	Supplied at 120 psi	
Power Requirements	100-240 VAC ±10%, 50/60 Hz	
Height	46 cm	
Width	20 cm	
Depth	56 cm	
Weight	35 lbs (16 Kg)	
Computer Interfaces	Ethernet	
Autosampler	ASX-280, ASX-560	
Warranty	12 month limited	

# Leeman Labs and Elemental Analysis

Our experience isn't limited to Mercury analysis alone. It extends to a variety of other techniques, with the same quality, precision, functionality and thorough engineering we've built our reputation on. If you're seeking elemental analysis for your specific application or industry, Teledyne Leeman Labs is the solution.

### Inductively Coupled Plasma – Optical Emission Spectrometers (ICP-OES)

ICP-OES is ideal for low to trace level analysis of metals, metallic components in a very wide variety of sample matrices. Whether you need to measure sodium content of sea water or trace levels of toxic elements in drinking water, ICP is a powerful and effective tool for the job.

#### **DC Arc Spectrometer**

Our DC Arc Spectrometers are the ultimate solution for elemental analysis of the most challenging solid samples. The DC Arc can perform elemental analysis on samples that are difficult or nearly impossible to digest, or samples in their native form without digestion.







www.leemanlabs.com