

TGA801

Thermogravimetric Analyzer



LECO
EMPOWERING RESULTS

TGA801

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The TGA801 is the latest generation of automated macro thermogravimetric analyzers to enter our lineup. The TGA801 maintains the core capabilities and reliability of previous generations of LECO macro TGA instruments, while providing key improvements in performance and robustness. By incorporating state-of-the-art hardware with an on-board touch-screen software platform and a rugged design, the TGA801 provides accurate, high-precision thermogravimetric constituent analysis—moisture, ash, volatile content, and LOI in various organic, inorganic, and synthetic materials. Complying with ASTM standardized methods, the TGA801 is applicable to many industries and applications including coal, cement, catalyst, foods, and feeds.

Macro thermogravimetric analysis replaces the often slow, labor-intensive, traditional manual gravimetric techniques that require multiple sample weighing and transfer steps involving ovens, muffle furnaces, and desiccator equipment. The flexible method settings, automation, and hardware capabilities of the TGA801 deliver an automated analysis process while requiring only the manual measurement of the initial sample mass, saving you time in your lab.



Maximize Productivity and Improve Work Flow

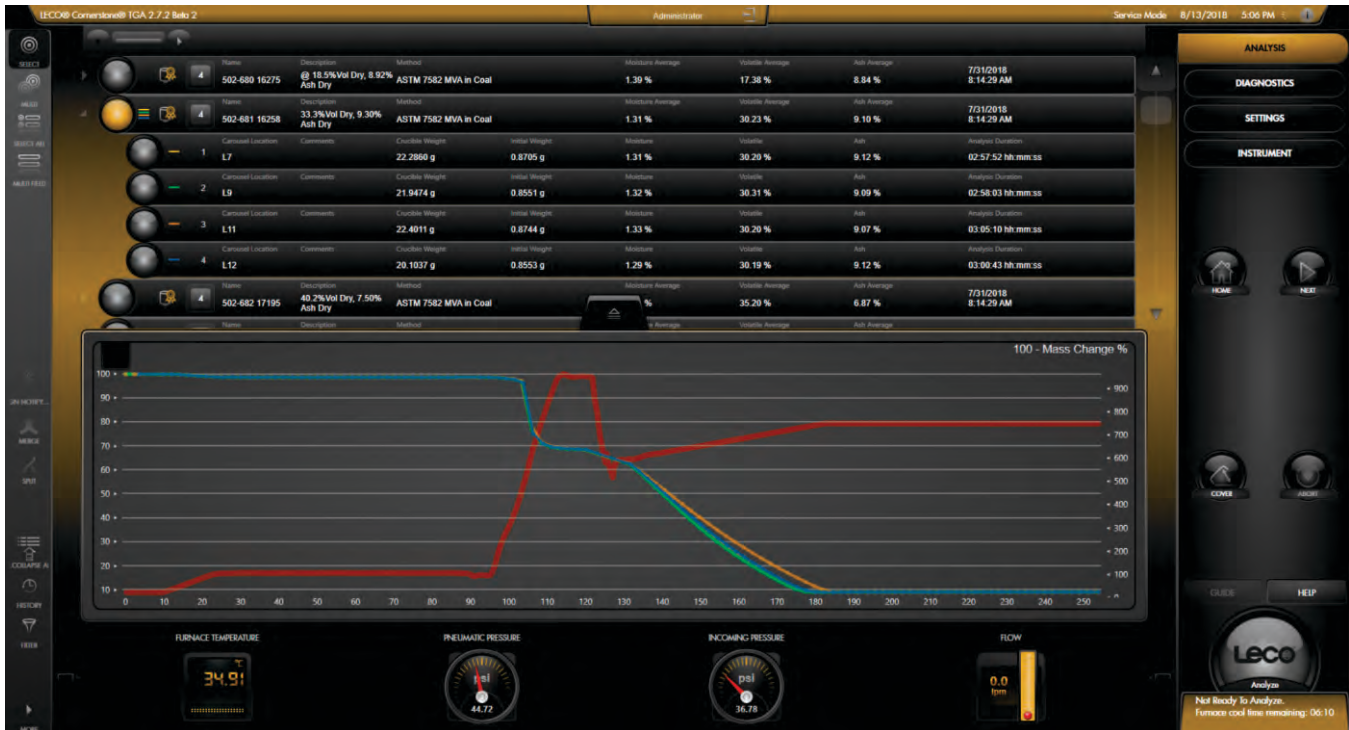
- Automated thermogravimetric analysis batch of up to 19 samples
- Eliminate the handling, transfer, and cooling time required of traditional gravimetric methods
- Determine multiple constituent analysis such as moisture, volatile matter, and ash from a single sample and analysis batch sequence
- Optimize analysis time using automatic end point recognition based upon sample mass constancy



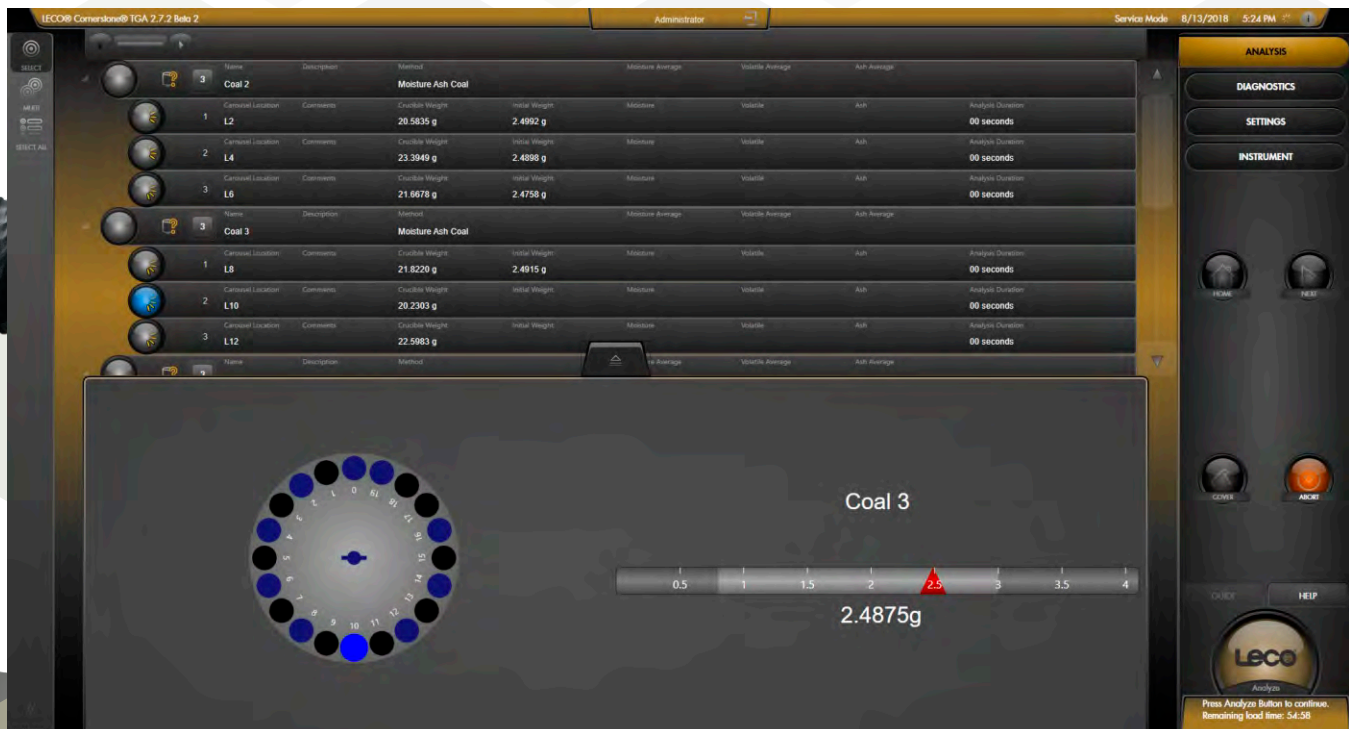
User-Friendly Cornerstone® Brand Software

LECO's exclusive Cornerstone brand software with touch-screen interface enables complete access to analysis control, method settings, diagnostics, reporting, and more in a highly organized, intuitive, and immersive environment. Designed through a collaboration of customer feedback and innovative engineering, Cornerstone features all of the routine day-to-day operations within a single Analysis screen designed for speed and ease-of-use. Our innovative grouping of sample data into sets and replicates simplifies the data output and automatically calculates relevant statistics, alleviating the need for additional data processing.

Analysis



Loading Screen

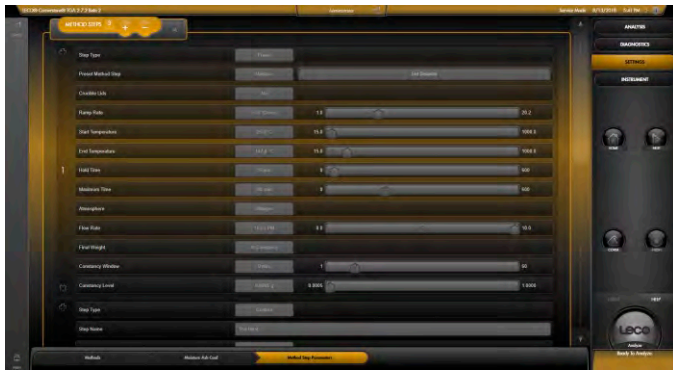


Software Features and Benefits

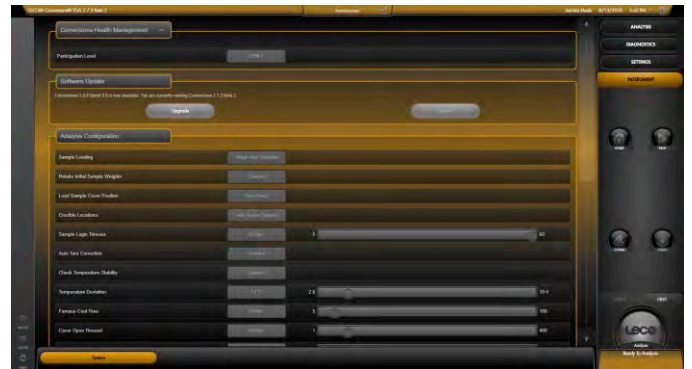
Cornerstone software is divided into four main sections—Analysis, Diagnostics, Settings, and Instrument—for simplified navigation and organization. Toolbars, sliders, and drop-down menus make it easy to set parameters for calibration and data processing. The software also includes real-time monitoring of ambient parameters, with fully animated system diagrams.

Advanced interactive diagnostic features include a thorough digital on-board manual, maintenance animations, photo illustrations, and screen captures that quickly provide the direction needed without having to refer to multiple manuals.

Cornerstone also supports a multilingual interface, user permissions, extended data archiving and filtering, compatibility with various Laboratory Information Management Systems (LIMS), and flexible reporting capabilities. Compliance to FDA regulations 21 CFR Part 11 for a closed analytical system is also supported.



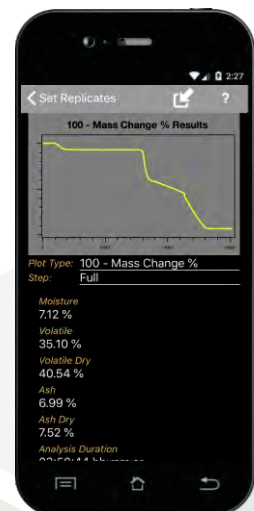
Settings ▶ Calibration



Instrument ▶ Furnace



An optional Cornerstone Mobile application feature enables remote viewing of the instrument software from a smartphone, tablet, or PC. It can also be programmed to set automatic notifications from the instrument against predefined software conditions using e-mail, text message, or the Cornerstone Mobile application.



LECO—Your Source for Total Analytical Solutions

832 Series

- Simple, fast, accurate sulfur/carbon determination in organic materials
- High-efficiency furnace with intelligent control lowers operating costs and optimizes furnace reliability
- Individual wide-range IR detection
- Operator-centered design with touch-screen Cornerstone brand software promotes an ergonomic workspace and optimized workflow
- Optional Performance Package (P) and Dual-Range (DR) 832 model also available



TGM800 Moisture

- High precision, automated thermogravimetric moisture determination, which utilizes a direct method for replacing tedious manual loss-on-drying techniques
- Measure up to 16 samples at a time with drying time end-point recognition
- Intuitive Cornerstone brand software with flexible method settings and touch-screen operation
- Precise oven temperature ramping and set point control up to 150 °C
- Remote access through Cornerstone Mobile provides access to data, plots, and instrument status from smartphone, tablet, or desktop computer

Organic Consumables

Get the best results from your LECO instrument by using genuine LECO consumables. Visit www.leco.com for featured items, specials, and ordering information.



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Form No. 209-273

R1.510-REVO

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