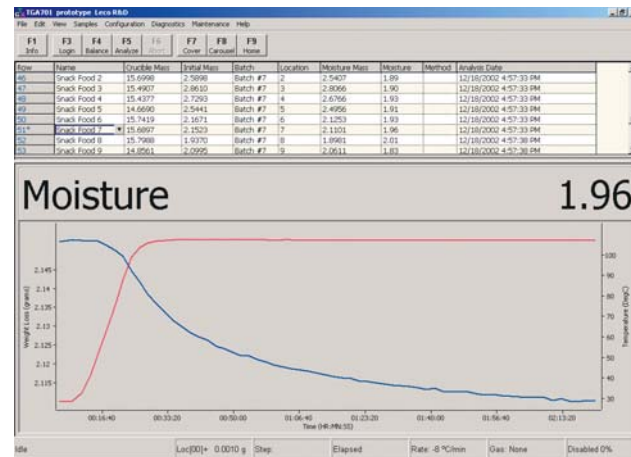
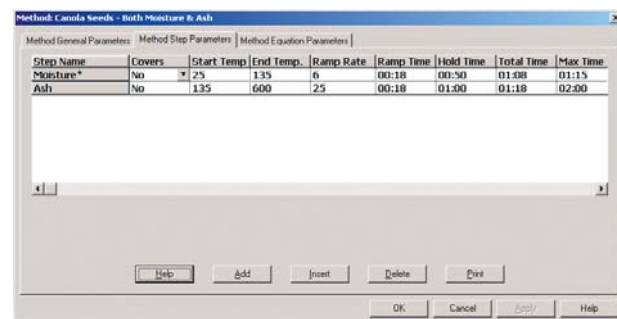


## Easy-To-Use Windows®-Based Operating Software

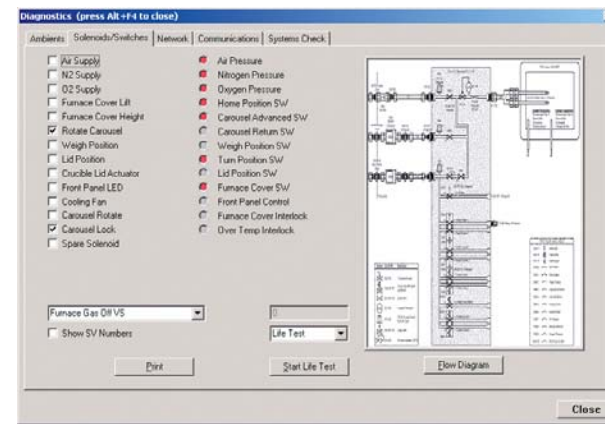
With virtually unlimited storage space and compatibility with various Laboratory Information Management Systems (LIMS), this software is designed for seamless interaction with any operator or customer environment. A convenient on-board help manual allows you to quickly access information without leaving your instrument.



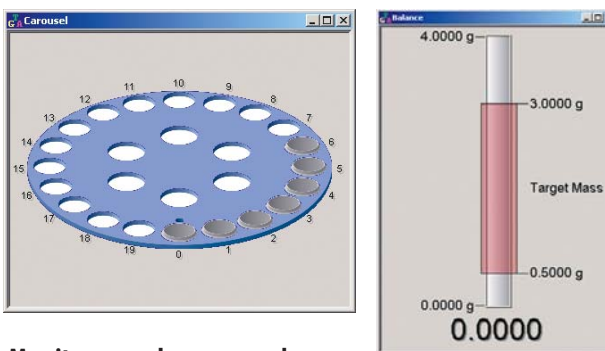
Manage data and graphs seamlessly.



Customize method parameters to your application.



Expanded interactive service diagnostic screens help increase your uptime.



Monitor sample mass and positions graphically.

TGA701 Software supports compliance to strict FDA regulations (21 CFR Part 11) for a closed analytical system.

## LECO Organic Analysis—Working With You

TruSpec® Series  
Elemental  
Determinators



TFE2000 Fat  
Determinator



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**LECO**  
TGA701 Thermogravimetric Analyzer





# TGA701 Thermogravimetric Analyzer

## Your total solution for fast, robust elemental and macro-constituent analysis

The TGA701 is LECO's latest generation of thermal analysis technology. It determines weight loss—as total moisture, ash, volatile content, or LOI—in various organic, inorganic, and synthetic materials. Complying with AOAC, AACC, and ASTM-approved methodologies, the TGA701 can be used in various industries and applications, including coal/coke, cement, catalysts, foods, feeds, and milling products.

Thermogravimetric analysis replaces traditional analytical techniques that require vacuum ovens, muffle furnaces, or microwave ovens. The TGA701 itself is an integration of the many benefits associated with previous-generation LECO models (MAC-400/500, TGA-500/501/601). It offers enhanced capabilities such as accurate, high-throughput weight measurements, and simultaneous control of system temperature—improving overall instrument reliability, functionality, and robustness. Simply program the TGA701 to match your current method for thermal analysis, and allow it to automatically operate with minimal user interaction.

### TGA701 Advantages

#### High Sample Throughput

- Perform batch thermogravimetric analyses without the required desiccator time of manual methods
- Obtain multiple thermogravimetric analyses such as moisture, volatile matter, and ash from one sample
- Dual configuration analyzes up to 38 samples simultaneously

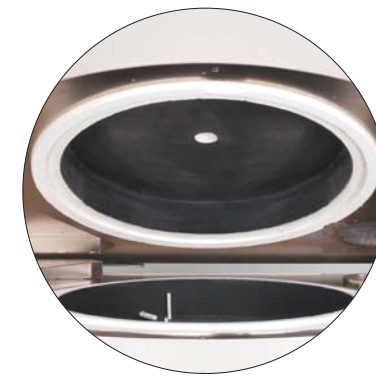
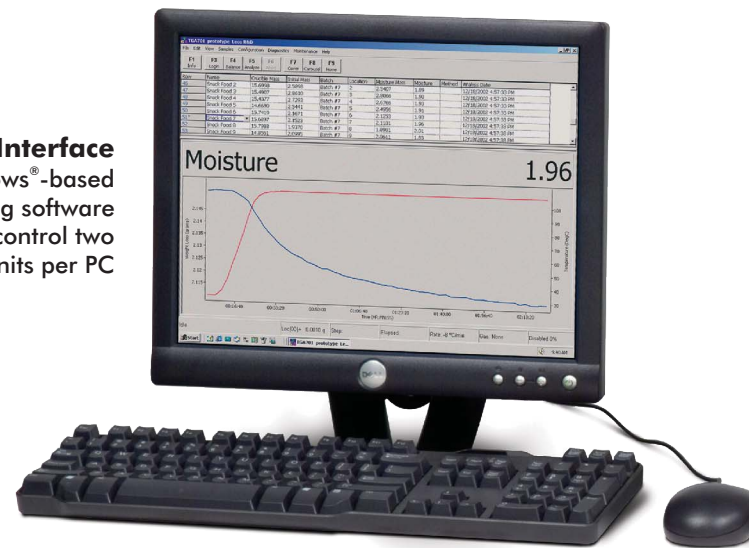
#### Improved Accuracy and Precision

- Patented temperature prediction algorithm standardizes unit-to-unit heating
- Integrated balance reduces noise and drift
- Pneumatic carousel control mechanism increases long-term reliability by eliminating oscillation and increasing position accuracy

#### User-Friendly Windows®-Based Software

- Simplified data handling with convenient storage, customizable reporting, and data exporting capabilities
- Flexible user-defined methods
  - Temperature starting, ending, and ramping
  - Atmosphere types and flow
  - Fields for automatic calculations using custom formulas
- Expanded real-time service diagnostics
  - Ambient charts of instrument temperatures, flows, and balance readings
  - Manual control of solenoids and switches
  - Network and communications diagnostics
  - Automated system check
- Compatible to **SmartLine**® Remote Diagnostics application
- Supports compliance to FDA regulation 21 CFR Part 11 for a closed analytical system

**User Interface**  
Windows®-based operating software can control two units per PC



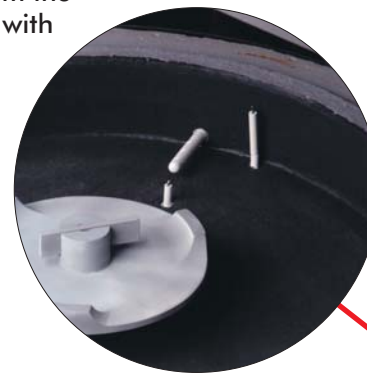
#### Embedded Heating Elements and Furnace Lids

- Temperature control up to 1000°C
- Provides uniform heat with enhanced ramping and temperature control



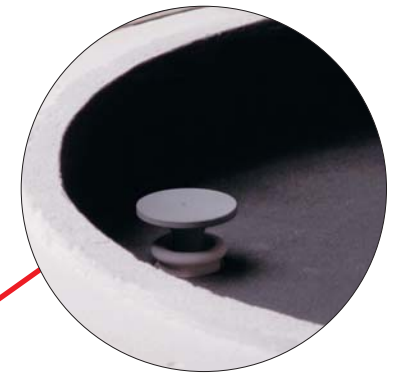
#### Ceramic Carousel and Pneumatic Carousel Mechanism

- 20 positions—for high throughput analysis
- Robust ceramics—will not warp under temperature stress (unlike metal)
- Pneumatic carousel—improves crucible placement accuracy and decreases balance noise



#### Dual Thermocouples

- Patented technique accurately predicts temperature inside the crucible
- Provides over-temp protection



#### Integrated Balance and Pedestal

Four-place sensitivity with a robust pedestal to hold ceramic crucible



#### ECLIPSE Network Protocol

Links internal system electronics for improved reliability and serviceability; exceeds FCC and CE requirements

