

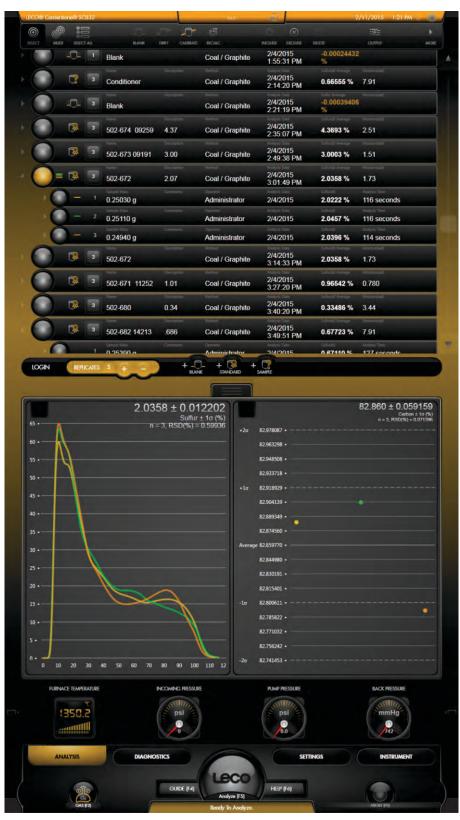
832 Series: Sulfur/Carbon Analysis by Combustion





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.



Software Features & Benefits

The 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.



Diagnostics ▶ Ambients



Instrument ▶Furnace



Settings ▶ Calibration



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.



Instrument Highlights and Features

High-Efficiency Furnace System Design

- Lower electrical requirement resulting in dramatically lower operating costs
- Intelligent furnace control optimizes furnace reliability and extends the heating element and ceramics lifetime
- Horizontal high temperature (up to 1550 °C with optional HT model) concentric ceramic furnace tube with ceramic lance directing oxygen directly onto the sample ensuring rapid analysis times, complete combustion, and recovery
- Improved gas flow control reduces ash debris restrictions, increases furnace lifetime, and instrument reliability
- Modified combustion assembly provides furnace isolation from the atmosphere, resulting in low blank value and improved precision





Improved Solid-State IR Cell Design

- Temperature stabilized construction provides increased isolation from ambient temperature fluctuations and other environmental susceptibilities
- Optimized emitter control and detection circuitry improves the IR cell lifetime and long-term stability, resulting in superior accuracy and precision
- Individual wide-range IR detection for both carbon and sulfur simplifies set-up and calibration for the standard S/C/SC832 models
- Optional dual-range (DR) detection for sulfur within S/SC832DR models have the widest sulfur range capability for the most demanding applications

Improved Design and Accessibility for Maintenance Areas

- To enhance safety and convenience, the dual reagent tubes and rotameters are located on the front side of the instrument behind the hinged front cabinet door
- Open internal cabinet access to pump with quick release features enables fast and simple preventive maintenance routines, ensuring a robust and reliable instrument with superior uptime
- Quick-connect heating element assemblies result in simple and fast access, and allow for single element replacement when needed, lowering maintenance costs





Additional Features and Benefits

- Optional Autoloader (L) with 100-sample capacity simplifies operator workflow and increases productivity
- Optional High Temperature (HT) model supports furnace temperatures up to 1550 °C, eliminating the need for combustion accelerators for refractory sample analysis
- Optional boom-mounted touch-screen interface package (M) promotes an ergonomic workspace while reducing system bench space requirements
- Optional Performance Package (P) adds an instrument leak check feature, which provides a valuable diagnostic tool and increases the reliability of the system; and an electronic back pressure control, which provides isolation to changes in atmospheric pressure and results in improved long-term stability
- Dual range (DR) S/SC832DR models contain the performance package features

Models

\$832	Sulfur Determinator
C832	Carbon Determinator
SC832	Sulfur and Carbon Determinator
S832DR	Dual Range Sulfur Determinator
SC832DR	Dual Range Sulfur with Carbon Determinator
\$832HT	High Temperature Dual Range Sulfur with Carbon Determinator
SC832HT	High Temperature Dual Range Sulfur with Carbon Determinator

Options

Monitor (M)	Instrument mounted touch-screen and six-axis boom mount
Performance Pack (P)	Adds an instrument leak check and electronic back pressure control (All DR instrument models contain performance pack)
Autoloader (L)	100-capacity sample Autoloader

NOTE: Multiple configurations of options are available. Please contact your local LECO Sales Engineer for more details.

LECO—Your source for total analytical solutions



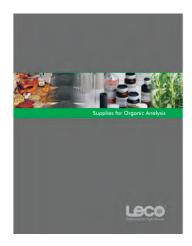
AC Series Isoperibol Calorimeters

- Accurate calorific measurements
- Ergonomic water-measuring/combustion vessel-filling station
- Analysis time in as little as five minutes
- Meets or exceeds ASTM requirements
- 6,000 to 15,000 Btu/lb for 1 gram sample

TGA701 Thermogravimetric

- Determines moisture/ash or weight-loss in various organic samples
- \bullet Expanded temperature control (up to 1000 $^{\circ}$ C) with variable atmospheres and ramp rates
- Pneumatic carousel mechanism and ergonomic design increases sample throughput, decreases downtime, and improves serviceability
- · Complies with AOAC, AACC, and ASTM-approved methodology





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 (Form number 203-828).

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