

836 Series

Oxygen/Nitrogen/Hydrogen by Inert Gas Fusion



LECO
EMPOWERING RESULTS

836 Series

Oxygen/Nitrogen/Hydrogen by Inert Gas Fusion

The ONH836 Oxygen/Nitrogen/Hydrogen family of Elemental Analyzers is designed for the simultaneous wide-range measurement of oxygen, nitrogen, and hydrogen content of inorganic materials, ferrous and nonferrous alloys, and refractory materials using the inert gas fusion technique.

These instruments feature our Cornerstone® brand software, designed specifically for touch-screen operation. Developed by combining long-term research with customer feedback, this easy-to-use software gives you complete access to instrument control, analysis settings, diagnostics, reporting, and more—without sacrificing valuable bench space.



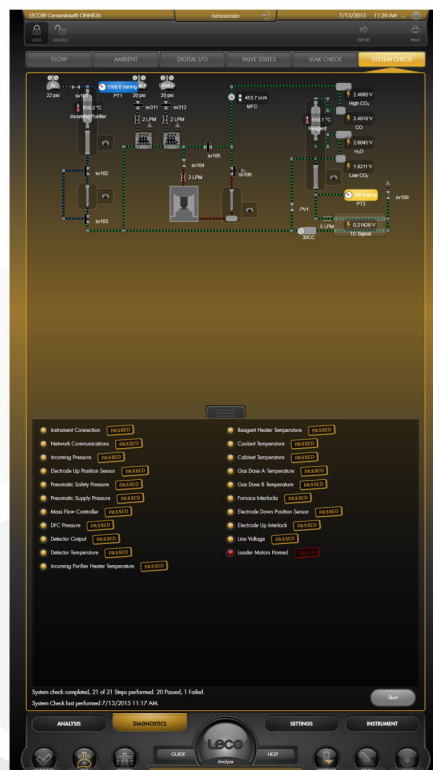
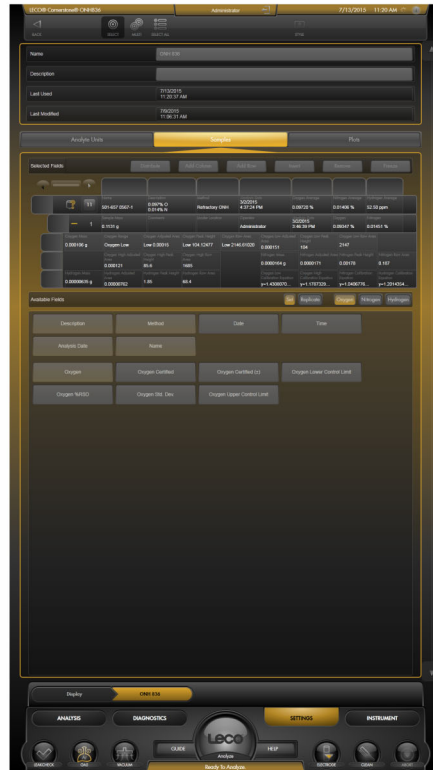
User-Friendly Cornerstone Brand Software

LECO's exclusive *Cornerstone* brand software with touch interface enables the user to have complete access to analysis control, method settings, diagnostics, reporting, and more in a highly organized and immersive environment. Designed through a collaboration of customer feedback and innovative engineering, *Cornerstone* allows the user to conduct all of their 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

Cornerstone brand 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 ambient monitors, with fully animated system diagrams. Advanced 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 extended data archiving and flexible reporting capabilities.




ONH836 Oxygen/Nitrogen/Hydrogen Analyzer

Instruction Manual

Version 2.0
Part Number 200-202
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Always Reading in U.S. and other countries.
Other nations may use the metric system.



LECO
Delivering the Right Results

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Quality at LECO Corporation means understanding your customer's requirements and establishing procedures that track, define those requirements, and ensure the quality of the product. The commitment to quality objectives, aimed at never-ending improvement and complete customer satisfaction.

Safety Symbols

These symbols may be found on LECO equipment or their components. These symbols indicate the use of specific safety guidelines. Important safety information is highlighted in this manual by one of the following symbols:

- WARNING** Operator and service personnel should read and understand these instructions. The equipment should be operated only in accordance with these instructions.
- CAUTION** The operator should follow all of the warnings and cautions set forth in the manual and the operator should follow and adhere to applicable standard.

This symbol indicates a risk of electrical shock.

This symbol indicates a high temperature surface.

This symbol indicates a caution.

This symbol indicates an explosion potential.

This symbol indicates potential motor damage.

This symbol indicates a risk of personal injury.

Instrument Highlights and Features

Features and Benefits

- Patented detection system for true simultaneous ONH analysis. One sample and one crucible per analysis with no carrier gas changeovers
- LED light ring illuminates the furnace area
- Quick-removal finish scrubber features automatic bypass valve
- Patented Dynamic Flow Compensation ensures stable flow to the TC detector with high oxygen scrubbing
- Non-touch interface systems also available



Shown with touch-screen monitor.



Shown with optional autocleaner and stand-alone touch-screen monitor.



High-Efficiency Cooling System

- Reduces or eliminates the need for external cooling
- Dual DC cooling fans provide consistent cooling regardless of line voltage or frequency
- Novel electrode design increases heat transfer efficiency

Optional Automation

- Available autocleaner minimizes the need for manual cleaning between analyses
- Optional 20-sample batch or 100-sample process loaders available
- High-velocity vacuum cleaner design keeps dust and soot to a minimum



Improved Detector Design

- Thermostatic construction provides increased protection from ambient temperature fluctuations
- Optimized emitter control and detection circuitry improves the IR cell lifetime and long-term stability, resulting in superior accuracy and precision
- Oxygen determination with both CO₂ and CO detectors for complete gas characterization and expanded range

Models

ONH836 Oxygen/Nitrogen/Hydrogen
ON836 Oxygen/Nitrogen
OH836 Oxygen/ Hydrogen
NH836 Nitrogen/Hydrogen
O836 Oxygen
N836 Nitrogen
H836 Hydrogen

Options

SmartLine Remote Diagnostics	Liquid-to-Liquid Heat Exchanger
Recirculating Chiller	Power Purifier
Sample Autoloader	Printer
Interfaced Balance Kit	

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

LECO—Your source for total analytical solutions



CS844 Series: Carbon/Sulfur by Combustion

- Carbon and sulfur determination by combustion infrared detection
- Quick, accurate, and affordable determination for both production control and research
- Calibration, analysis, evaluation, and diagnostic functions accessible via user-friendly Cornerstone brand software

GDS900 Atomic Emission Spectrometers

- Spectral range from 120 to 800 nm
- Continuous profile of concentration/thickness
- Large, dynamic range with concentrations from ppm to 100% by weight
- Short analysis time (minutes)



Inorganic 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 203-959)

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