seitron Americas

NOVO
COMBUSTION ANALYZER

Novo
PORTABLE COMBUSTION ANALYZER
UP TO 4 SENSORS

7" Touch Screen for easy menu navigation

Simultaneous Gas Pressure + Combustion Measurements

Optional Built-in Printer

Long Life O2 Sensor (4 Years)

New Dual Range (Low/High) Sensor Technology

Low NOx and SOx sensors

**15 Preprogrammed Fuels
Including Natural Gas, Oil, Propane, & Biofuels**

CO Protection Dilution Pump

Rechargeable Li-Ion Batteries

Integrated water trap with LED backlight for easy maintenance

Differential Pressure Manometer

Draft Measurement

Mobile App for iOS and Android

EVERY KIT INCLUDES:
- Combustion Analyzer
- Gas probe with 12" (300 mm) interchangeable tip
- 10 ft (3m) Single Connection Hose
- Integrated water trap
- Manometer Hoses
- Outdoor Combustion Air Temp Probe
- AC Power Adapter & Cable
- Hard plastic kit case
- Quick Guide
- Calibration Certificate

**4 YEAR WARRANTY
ON O₂ SENSOR**

Seitron Smart Analysis

GET IT ON Google Play
Download on the App Store
EXPLORE IT ON HUAWEI AppGallery

**Seitron Smart Analysis
Windows 10**

Windows 7 or later

MAIN FEATURES

- Precalibrated Gas Sensors
- Field Replaceable
- Altitude Adjustment
- Integrated magnets
- Automatic autozero (with gas sampling probe inserted in the chimney)
- Self-diagnosis with verification of the functions and status of the sensors
- Language selectable by User
- 100,000 test memory
- Dimensions:
  Analyzer 10.6x3.6x2.7in (270x93x68mm), weight 2 lbs (0.9Kg)
  Kit 5x18x13in (125x465x335mm), weight 11 lbs (5Kg)

MEASURED VALUES

- Differential Flue Gas and Ambient Air Temperatures
- Incoming Air Temperature and Ambient Air Temperature
- Draft and Differential Pressure
- Ambient CO
- O_2 and CO in flue gas

CALCULATED VALUES

- Combustion Efficiency, including condensing units
- Stack losses and excess air
- Flow velocity with optional Pitot tube
- CO Air Free

Product Configurations	Novo 1	Novo 3	Novo 4S	Novo 4N
Expandible up to 4 sensors (*)	-	✓	✓	✓
O_2 Sensor	✓	✓	✓	✓
CO/H_2 Sensor	✓	✓	✓	✓
NO Sensor	-	✓	✓	✓
NOx Calculated	-	✓	✓	✓
NO_2 Sensor	-	-	-	✓
NOx Total NOx ($NO+NO_2$)	-	-	-	✓
SO_2 Sensor	-	-	✓	-
Kit with integrated Printer	Novo 1-P	Novo 3-P	Novo 4S-P	Novo 4N-P

(*) Other gases sensors available upon request including CxHy (HC), H_2S, H_2, Ammonia, Direct CO_2 and Methane CH4.

NEW UPDATED FEATURES

7" touch screen

The new device has been redesigned to give the user an improved and easy-to-use experience.
The analyzer includes a large 7" touchscreen, granting maximum visibility of all information along with quick and smooth browsing experience.

Simultaneous Gas Pressure + Combustion Reading

Thanks to the Novo's ability to measure combustion parameters and gas pressure simultaneously, Novo the service time is drastically reduces and limits the need to use different devices.

Integrated water trap

The water trap design has been completely innovated to guarantee maximum performance and easy maintenance. A large inspection window with backlit LED allows the user to quickly and very easily check the water level and filter at any time.

Simple ONE Probe Connection

One source of major improvement of our analyzer is the new, innovative flue gas sampling probe connection. Instead of three (3) separate connections for temperature, draft and flue gases, it has been redesigned to just one (1) simple connection. The new connection allows the user to connect the probe without looking with an easy plug-n-play design.
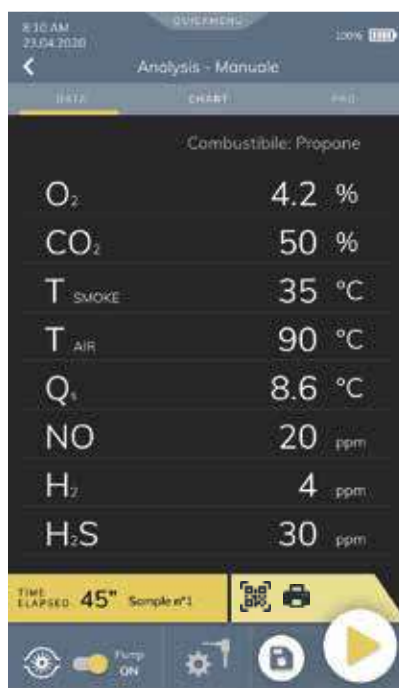
Intuitive interface

In addition to the elegant and ergonomic design, the Novo features a simple, intuitive and efficient touchscreen interface.

The new and intuitive interface allows the user to quickly create customizable combustion reports, set and/or change the parameters of the device, carry out multiple optional measurements, and so much more.

There is also the possibility to customize the home screen, with user's profile picture and information.

The combustion report can be shared in different formats or it can be printed by using the built-in integrated printer or the option wireless Bluetooth printer.

The new generation of LONG-LIFE gas sensors, installed in the Novo, enhance reliability and accuracy of measurements, in addition to a longer sensor life compared to competition.

Seitron Smart Analysis

SEITRON SMART ANALYSIS APP

• Data logging

• Report creation

• QR code or real-time App

• Sharing via e-mail (csv, pdf, xml)

Novo - Gas Sensors

GAS	COD.	RANGE	SENSOR TYPE	RESOLUTION	ACCURACY	
O2 Long Life	Novo O2 LL	0...25% v/v	Electrochemical Sensor	0.1% vol	±0.2% vol	
CO / H2	Novo CO/H2	0...500.0 ppm	Electrochemical Sensor	0.1 ppm	±2 ppm ±5% v.m.	0 .. 40 ppm 40.1 .. 500.0 ppm
		501...8000 ppm	Electrochemical Sensor	1 ppm	±10% v.m.	501 .. 8000 ppm
CO Mid	Novo CO Mid	0...20000 ppm	Electrochemical Sensor	1 ppm	±10 ppm ±5% v.m. ±10% v.m.	0 .. 200 ppm 201 .. 4000 ppm 4001 .. 20000 ppm
CO High	Novo CO High	0...100000 ppm	Electrochemical Sensor	1 ppm	±100 ppm ±10% v.m.	0 .. 1000 ppm 1001 .. 100000 ppm
NO	Novo NO	0...500.0 ppm	Electrochemical Sensor	0.1 ppm	±2 ppm ±5% v.m.	0 .. 40 ppm 40.1 .. 500.1 ppm
		501...5000 ppm	Electrochemical Sensor	1 ppm	±10% v.m.	501 .. 5000 ppm
NO2	Novo NO2	0...100.0 ppm	Electrochemical Sensor	0.1 ppm	±2 ppm ±5% v.m.	0 .. 40 ppm 40.1 .. 100.1 ppm
		101...1000 ppm	Electrochemical Sensor	1 ppm	±10% v.m.	101 .. 1000 ppm
SO2	Novo SO2	0...500.0 ppm	Electrochemical Sensor	0.1 ppm	±2 ppm ±5% v.m.	0 .. 40 ppm 40.1 .. 500.1 ppm
		501...5000 ppm	Electrochemical Sensor	1 ppm	±10% v.m.	501 .. 5000 ppm
H2	Novo H2	0...2000 ppm	Electrochemical Sensor	1 ppm	± 10 ppm ± 10% v.m.	0 ppm - 100 ppm 101 ppm - 2000 ppm
H2 High	Novo H2	0...40000 ppm	Electrochemical Sensor	10 ppm	± 100 ppm ± 10% v.m.	0 ppm - 1000 ppm 1001 ppm - 40000 ppm
H2S	Novo H2S	0...5000 ppm	Electrochemical Sensor	1 ppm	± 10 ppm ± 10% v.m.	0 ppm - 100 ppm 101 ppm - 5000 ppm
H2S Low	Novo H2S low	0...500.0 ppm	Electrochemical Sensor	0.1 ppm	±5 ppm ±5% v.m.	0 .. 100.0 ppm 101 .. 500.0 ppm
NH3 Low	Novo NH3	0...500.0 ppm	Electrochemical Sensor	0.1 ppm	±10 ppm ±10% v.m.	0 .. 100.0 ppm 100.1 .. 500.0 ppm
CxHy	Novo CxHy	0..5% vol CH4	Pellistore Sensor	0.01% vol	±0.25% abs	
CH4 NIDR	Novo CH4 NDIR	0..100% vol	NDIR Sensor	0.01% vol	±0.3 vol ±10% v.m.	0 .. 10% vol 10.01% .. 100.00% vol
CO2 NDIR	Novo CO2 NDIR	0..50% vol	NDIR Sensor	0.01% vol	±1 vol ±2% fs	0 .. 10.00% vol 10.01% .. 50.00% vol

Part#	PHOTO	DESCRIPTION
AJPB01		Li-Ion Rechargeable Battery; 3.7Vdc - 6 A/h
AJKA02		Power supply with US plug, USB type C and cable
AJCR01		Hard plastic Case
AJTA01		Water trap with flue gas filter
AACFA01		Replacement dust filters for AACTA03 water trap (pack of 5 pieces)
AARC10		Long Life thermal paper roll 2.2x1.4in (57x35mm)
AAST04	rechargeable battery	Thermal printer with Bluetooth connection
AJST01		Built-in Printer (Installation on request by Seitron Americas)
AASA08A		Primary Air Temperature Probe for Condensing Systems 8" / 6,5ft cable

Part#	PHOTO	DESCRIPTION
AJTB01		Gas pressure tube; length 40" (1 m)
AJSJ02		Sampling probe handle with 10ft (3 m) cable
AJPT01		Interchangeable 7" (180 mm) tip for AJSJ01 handle, maximum temperature 752°F (400°C)
AJPT02		Interchangeable 12" (300 mm) tip for AJSJ01 handle, maximum temperature 1112°F (600°C)
AJPT03		Interchangeable 30" (750 mm) tip for AJSJ01 handle, maximum temperature 1472°F (800°C)
AJPT04		Interchangeable 40" (1000 mm) tip for AJSJ01 handle, maximum temperature 2192°F (1200°C)
AJEX01		10ft (3 m) extension cable for sampling probes with handle AJSJ01
AACE01		Active sample conditioning system with thermoelectric chiller
AASCU01		Passive sample conditioning unit SCU

Maintenance and Service

A high-quality, up-to-date and certified instrument in compliance with current standards is essential in carrying out your work in the best possible way, while minimizing liability.

- Gases (O_2, CO, CO_2, NO, NO_2, SO_2, CxHy)
- Temperature
- Pressure
- Humidity
- Current
- Air Flow
- Refrigeration Gases

24-48 Hr Turnaround

Services offered:
- Calibration
- Annual certification
- Training
- Repairs
- Field technical support in real time
- Field calibrations

On-Site Services

Calibration/Adjustments

Training