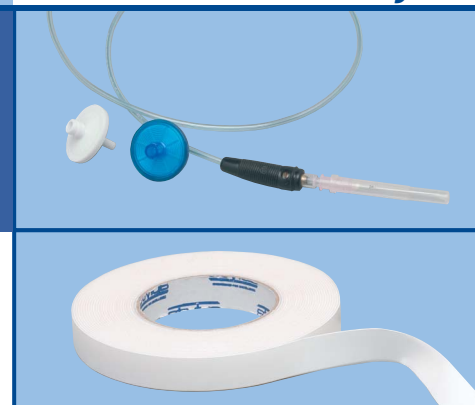




Model 1637 Oxygen & Carbon Dioxide Analyser

Oxygen and Carbon Dioxide measurement made simple



The Novatech 1637 Oxygen and Carbon Dioxide Analysers are ideal for:

- Food and beverages
- Inert and sterile packaging
- General industrial use
- Scientific tasks

The Novatech 1637 Oxygen and Carbon Dioxide Analysers are especially suited to food and beverage applications including:

- Head space analysis in closed packages
- Head space analysis in cans
- Continuous process measurement

The Novatech 1637 Oxygen and Carbon Dioxide Analysers

- Easy-to-operate, reliable, no regular calibration needed
- Select the analyser for your application: O₂ or O₂ + CO₂
- Accurate, rapid response, low drift Zirconia O₂ sensor: 1 ppm to 100%
- Sturdy, non-dispersive, Infra-Red CO₂ sensor: 0 to 100%
- Two isolated 4-20 mA outputs
- Programmable O₂ and CO₂ alarms

Accuracy and reliability

The Oxygen and Carbon Dioxide sensors provide accurate and virtually drift-free measurement for years. The Oxygen and Carbon Dioxide sensors can be automatically zeroed for every reading and span recalibration, using a calibration gas, is a simple keyboard entry.

Minimal maintenance is needed if samples are kept clean!

Tailor the analyser to the application

The Novatech 1637 Analysers are available for Oxygen only, or for both Carbon Dioxide and Oxygen. The instruments can be selected with a pump where samples need to be aspirated, and with accessories (see reverse side) including:

- Metal can piercing tool
- Hypodermic needles for plastic packs
- Septum
- Filters for dry or wet dusts, or hydrocarbons

Small sample volumes and responsiveness

Accurate readings can be made with sample volumes as small as 5 millilitres, providing response times to changes in gas composition of typically only 3 seconds (for O₂) and 6 seconds (for CO₂) at gas flow rates of 100 millilitres/minute.

Security at all times

The lowest readings for Oxygen, and the highest reading for Carbon Dioxide are held in memory, and displayed. Alarm relays will indicate the exceeding of programmed Oxygen and Carbon Dioxide levels. The operation of the sensors is continuously monitored, and in the unlikely event that one or both should fail, the display will indicate clearly, in words, the actual fault.

Reports

Connect a standard printer or PC to the instrument, and reports for every sample tested are made available. Alternatively an analog recorder can be connected to the dual isolated 4-20 mA current loop outputs.

Specifications

Measuring Range

- 1 ppm to 100% oxygen autoranging
- 0 to 100% CO₂

Response Time

- Oxygen < 3 seconds with a gas flow of 100cc / min
- CO₂ < 6 seconds with a gas flow of 100 cc / min
- Add sample tubing purge time to these figures

Accuracy

- Oxygen ±1% of actual reading
- CO₂ ±3% of full scale

Warm Up Time

- Seven minutes

Outputs

- Two isolated, linearised, 4-20 mA DC outputs into 1000Ω loads (maximum)
- One common alarm relay for self diagnostic alarms
- Three user selectable alarm relays

Power

- 240 / 110 VAC, 50 / 60 Hz, 115W

Gas Connection

- 1/8" Swagelok tube connector

Flow Rate Range

- 100 - 500 cc / min

Environmental

- 0 - 50°C ambient temperature
- 0 - 45°C ambient temperature with CO₂ sensor fitted

Weight

- 4.5 Kg

Dimensions

- 265mm wide x 150mm high x 320mm deep

Range of Output 1

- 1 ppm to 100% Oxygen with field selectable span and zero. Minimum span is 100 ppm Oxygen

Range of Output 2

- 0 to 100% CO₂
- Sample Oxygen
(Lowest value of the last sample taken and held)

Indication Choice, Lower Line

Any or all of the following can be selected for display on the lower line of the 32 character, back lit, LCD:

- Sample Oxygen / CO₂
- Balance gas (Remaining gas after O₂ and CO₂ have been removed)
- Oxygen sensor emf
- Oxygen sensor temperature
- Oxygen sensor impedance
- Ambient temperature and ambient relative humidity
- Date / time, hours since date of last service

Relay Contacts

- 0.5A 24VAC, 1A 36 VDC

Sampling Pump

- Internal diaphragm pump

Mounting

- Desk top. Also available as a surface mounting analyser with an external Oxygen sensor (model 1234 Oxygen sensor and model 1632 analyser)

Ordering Information

Model	Measurement	Pump
1637-1	Oxygen	Yes
1637-2	Oxygen	No
1637-5	Oxygen & CO ₂	Yes

Accessories

- Metal can piercing tool
- Hypodermic syringe for plastic packs
- Septum
- Filters for dry dust, wet dust or hydrocarbons
- Flashback arrester for hazardous applications
- Calibration check gas solenoid valve
- Calibration check flowmeters

Distributed by:



Novatech
CONTROLS AUST. PTY. LTD.

309 Reserve Road, Cheltenham, Vic 3192 Australia
Tel: +61 (03) 9585 2833 Fax: +61 (03) 9585 2844
email: info@novatech.com.au
www.novatech.com.au