

Oxygen measurement made simple

The Novatech 1234 Oxygen Sensors are ideal for:

1234 OXYGEN SENSOF

Nova

• Flue gas analysis

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- Inert atmosphere measurements
- Modified Atmosphere Packaging
- · Inert and sterile packaging
- General industrial use
- Scientific tasks
- Gas purify analysis

One, Two, Three, Four Reasons for using Novatech 1234 sensors

Reasons for using Novatech 1234 sensors

- One: Useable for Oxygen measurement in many processes
- **Two:** Adapts to positive and negative pressure process streams
- Three: Suitable for many corrosive situations
- Four: Low maintenance and high accuracy

The Novatech 1234 Oxygen Sensors

- Easy-to-operate, reliable, no regular calibration needed
- · Select ancillaries for your application
- Accurate, rapid response, low drift Zirconia Oxygen sensor: 1 ppm to 100%
- Connect to the Novatech 1632 Oxygen Analyser, analog input card on a PC, PLC, or DCS

Accuracy and reliability

The Novatech 1234 Oxygen sensors provide accurate and virtually drift-free measurement for years.

Adapting the Novatech 1234 to your application

The Novatech 1234 sensors are available for Oxygen measurement in a range of applications by using ancillary equipment including:

- Process sampling probes available to suit your application
- Integral electric pump and filter assembly for aspirating samples
- Filters for dry dust, wet dust or hydrocarbons
- Flow meter

The Novatech 1234 sensors are responsive

Accurate readings can be made with sample response times as short as 3 seconds to changes in gas composition for Oxygen.

Talk to Novatech about your Oxygen measurement application; we're responsive and knowledgeable!



Specifications

Measuring Range

• 1 ppm to 100% oxygen

Sensor Output

• emf = 2.154.10⁻².T.loge (0.209 / oxygen level)

Response Time

- 1234C 5 seconds with a gas flow of 2 litres / min
- 1234E 3 seconds with flows from 0.5 to 25 litres / min
- 1234M 3 secs with flows from 0.1 to 0.5 litres / min

Accuracy

• ±1% of actual reading

Thermocouple

• Type K

Warm Up Time

• Seven to ten minutes

Heater Power

• 110 VAC, 50 / 60 Hz, 115Watts

Flow Rate Range

• 0.1 to 25 litres / min

Gas Connection

• 1/4" NPT female, inlet and outlet

Sample Aspiration

 Convection flow from hot furnace or flue, from process pressure, electric pump or air operated ejector (for 1234E model only).

Environmental

- Non weather proof cabinet. If mounting outdoors, a weather-hood is required for electrical protection. Do not enclose in sealed cabinet or overheating may occur. Your cabinet should be vented.
- Ambient temperature 0 100°C

Weight

• 2.2 Kg

Dimensions

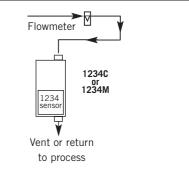
• 300 mm x 125 mm x 88 mm

Optional Sample Pump

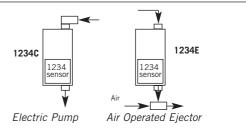
• External electrical diaphragm pump, 240 / 110 VAC, or air operated ejector, 30 to 100 kPa

Optional Process Sampling Probe, Filter and Bush

 Stainless steel filter, 500°C max. Process connection bush 1.5" BSP or NPT to 3/8" tube. (3/8", 16 gauge tube supplied by others)



1234 Sensors With Process Aspirated Samples



1234 Sensors with Induced Sampling

Mounting

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• Vertical surface mount, brackets supplied

Ordering Information

odel	Application
odel	Application

- 1234C If sample is delivered from process or pump
- 1234E If sample is drawn from the outlet by suction,
- specify mains voltage on 1234E, 240V or 110V 1234M For low flow rate requirement

Accessories

- Integral electric pump and filter assembly MV-10F (fitted on top of your 1234 sensor)
- Air operated ejector (for 1234E model only)
- Sampling probe filter and bush, tube by others
- Filters for dry dust, wet dust or hydrocarbons
- Flow meter

Distributed by:



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