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Model 902D O2 / **CO2 Headspace** **Analyzer**

The Quantek Model 902D is a benchtop oxygen and CO2 headspace analyzer, primarily used for gas flushed food packages. Achieve accurate oxygen and carbon dioxide measurements in 20-25 seconds.

This headspace analyzer contains an internal pump to draw in sample from your package and display O2 and CO2

concentration results in 30 seconds.

The expected oxygen sensor life is typically 5 years, unlike other analyzers with a sensor that last 1-2 years, reducing total cost of ownership, and analyzer downtime.

EASY SAMPLING & ANALYSIS

The Model 902D analyzer sample probe is tipped with a particulate filter and luer fit syringe needle with side-port holes to prevent plugging. When the pump is activated, sample is drawn through the probe and tubing and then to the oxygen sensor.

The pump is electronically timed to draw in the precise amount of sample required for the analysis, and then turns itself off after the pre-set sampling time (5 to 10 seconds). The O2 and CO2 concentration is read on the display within 20-25 seconds.

ABOUT THE SENSORS

The solid-state infrared CO2 sensor has no moving parts, a compact optical cell, and microprocessor-based calibration factors using a 6th order polynomial equation and 32 bit processor to linearize the full range measurement up to 100%.

Both sensors are unaffected by high levels of background gases such as nitrogen.

The expected life of the CO2 sensor is theoretically unlimited, as it contains no moving parts.

The expected electrochemical O2 sensor life is typically 5 years, unlike other analyzers with an electrochemical sensor that last 1-2 years.

ABOUT THE PUMP

The rugged miniature diaphragm pump has electronically controlled timing function to operate only when sampling. It provides high flow rate and long operating life.

The pump is electronically timed to draw in the amount of sample required for the analysis, and then turns itself off after the pre-set sampling time (5 to 10 seconds).

OPTIONAL RECHARGEABLE BATTERY

If equipped with the optional battery, the 902D can be transported to your facility to conduct testing with no AC outlet available. Totally sealed, long-life battery (optional) accepts full or partial charging cycle. Charger module plugs into standard 115V outlet for charging or continuous operation, though it can accept 100-240V for worldwide use.

MICROPROCESSOR/ELECTRONICS

Micro-processor based electronics provide sensor signal processing, battery charging, pump timing and on/off control for high accuracy and reliability with minimal component use and reduced size and cost.

Specifications

Technical Specifications – Oxygen Channel

- Oxygen Sensor Type: Proprietary Electrochemical
- Expected Lifetime: 4-5 years
- Oxygen Range: 0 to 100%
- Oxygen Sensitivity: 0.1% O₂
- Oxygen Minimum Detection Limit: 0.1% O₂
- Oxygen Calibration Controls: SPAN adjustment, zero adjustment
- O₂ Calibration Frequency: Weekly; set with room air set to 20.9% O₂.
- O₂ Resolution: 0.1% O₂ (optional .01%)

Technical Specifications – Carbon Dioxide Channel

- Carbon Dioxide Sensor Type: Solid-state Infrared
- Expected Lifetime: Theoretically unlimited
- Measurement Ranges: 0-20% or 0-100%
- Accuracy (for 0-100% range): $\pm 1\%$ of reading, or $\pm 0.2\%$ CO₂ (whichever is greater)
- Accuracy (for 0-20% range): $\pm 1\%$ of reading or $\pm 0.1\%$ CO₂ (whichever is greater)
- CO₂ Minimum Detection Limit: 0.1% (0-100% range)
- CO₂ Minimum Detection Limit: 0.01% (0-0-20% range)
- CO₂ Calibration Controls: Potentiometer SPAN adjustment for CO₂.
- CO₂ Calibration Frequency: Every 18 months; calibration gas recommended.

Technical Specifications - All

- Sample Pump - Miniature diaphragm type with ~5cc/sec flow
- Pump Timing – 2-12 second adjustable pump time, potentiometer on back of analyzer
- Sampling Port - Double reinforced sample probe (~12in. length)
- Exhaust port – Vents to air
- Size - 9.8W x 4H x 10L in. (249 x 102 x 254 mm)
- Weight - 9.8 lb. (4.4 Kg)
- Warranty - 2 years, parts and labor
- Standards - CE, RoHS,
- Origin of Goods - Our products are manufactured in the U.S.A.

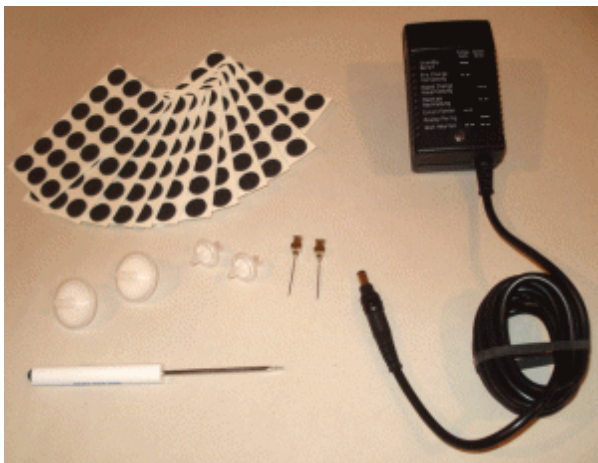
Applications

- Meats
- Dairy Products
- Cheeses
- Produce
- Snack Foods
- Baked Foods
- Prepared Meals
- Coffee
- Pet Foods
- Dessert Foods
- and Many More.

What's Included

Includes everything you need to begin sampling:

- Built-in pump, sample probe.
- Starter pack of 200 foam septas
- 2 needles.
- 2 particulate filters,
- 2 moisture blocking filters,
- Power supply / charger (for analyzers with optional internal battery) - (International compatible 100-240V)



Optional Items

- **OPTIONAL RECHARGEABLE BATTERY** - Totally sealed, long-life battery (optional) accepts full or partial charging cycle. Charger module plugs into standard 115V outlet for charging or continuous operation, though it can accept 100-240V for worldwide use. The battery pack is a 10 AA NiMH with high temperature safety shutoff, low voltage cutoff, and 12 hour typical runtime (depending on duty cycle).
- **SUPER FAST SENSOR** - For high volume sampling, upgrade to our super fast sensor for results in 5 seconds (normal test results in 15 seconds)
 - **.01% RESOLUTION** - Upgrade to optional .01% LCD resolution (normal resolution 0.1%)