

MODEL 901 HEADSPACE OXYGEN ANALYZER

- ◆ **Portable, battery operated**
- ◆ **Range 0.1 to 100% oxygen**
- ◆ **Long-life sensor (5 yrs)**
- ◆ **Internal sampling pump**
- ◆ **Economically priced**
- ◆ **Inexpensive to operate & maintain**
- ◆ **Calibrates with room air**



VERSATILE, RUGGED DESIGN

The Quantek Model 901 is a battery-operated, portable oxygen analyzer used for the measurement of residual oxygen in gas-flushed (CAP/MAP) food packages. This hand-held unit can be used by non-technical personnel where you need it, in the lab or at the packaging line, or it can be easily transported to other locations. The Model 901 is powered by Ni-Cad rechargeable batteries, with typically 8 hours of operation before recharging is required.

FOOD APPLICATIONS

The Model 901 design has proven itself in hundreds of installations for food applications such as meats, fresh produce, pasta, nuts, snackfoods, dairy products and coffee. The sensor is unaffected by high levels of background gases such as nitrogen or carbon dioxide. The Model 901 can also be used for applications where the oxygen level is very high (50 to 100%), without overloading the sensor. It is unaffected by trace hydrocarbons or high levels of CO₂, which can poison other types of sensors.

LONG-LIFE SENSOR

Unlike other units which require a new one in a year or less, the sensor in the Model 901 is designed to last 5 years without replacement. Unlike other sensors, it is not poisoned by high levels of CO₂ commonly found in gas-flushed food packs. The sensor is internally temperature compensated and will work in cold room temperatures at 25F (-13C).

EASY SAMPLING & ANALYSIS

The Model 901 sample probe is tipped with a particulate filter and luer fit syringe needle with side-port holes to prevent plugging. Sample is drawn through the probe and tubing and then to the oxygen sensor. The pump turns on only to draw in sample required for analysis, and then turns itself off after the pre-set sampling time of 5 to 10 seconds.

LOW COST

The Model 901 is a cost effective, reliable alternative to other analyzers. Not only is the initial cost much lower, but operating and maintenance costs are lower as well. When service is required, units are generally repaired and returned the same day as received to minimize down-time.

MODEL 901

Principle of Operation

The Model 901 uses a syringe needle sampling assembly to pierce the package and draw a sample into the analyzer sensor for oxygen measurement. The sensor signal is converted to per-cent concentration and displayed on the LCD screen. The oxygen sensor used in the 901 was specifically designed for gas-flushed packaging measurements. The sensor is a proprietary electrochemical design which is inexpensive, quick to respond, requires minimal power and has excellent zero and span stability. Unlike zirconia sensors which are heated to 500-600 °C, the 901 sensor will not crack when exposed to liquid water droplets and is unaffected by trace hydrocarbon gases.

Technical Specifications

Range:	0.1 to 100% Oxygen
Resolution:	0.1% Oxygen
Accuracy:	+/- 1% of reading
Minimum Detection Limit	0.1% oxygen
Sensor:	Electrochemical Cell
Sample Pump:	Internal, with adjustable timer
Sampling assembly:	Probe with male luer connection for side-port needle, PTFE tubing
Power Supply:	Four "AA" rechargeable batteries; auto shut-off after 45 minutes idle. Charger included
Battery Life:	Eight hours before re-charging
Size:	8 x 4 x 1.8 in. (200 x 100 x 40 mm)
Weight:	1 lb. (450 gms)

Supplies & Spares

9001	Foam Seal Pads
9003	Pkg. Of Needles, Side Hole
9005	Particulate Sample Filters
9007	Sample probe Assembly
9024	Operating Manual
9015	Valupak supplies package with needles, filters and foam seal pads.