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**TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.**

W-312, 13<sup>th</sup> Cross Road, M.I.D.C., Rabale, Navi Mumbai-400701, Maharashtra, India.  
Tel.: 9967177429 / +91-22-27691238

E-mail : [taiplem@gmail.com](mailto:taiplem@gmail.com) Website: [www.technovationindia.com](http://www.technovationindia.com)

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**MODEL EC - 1000    MODIFIED ATMOSPHERE PACKAGED    HEADSPACE OXYMETER**

**THE INSTRUMENT**

THE TECHNOVATION HEADSPACE OXYGEN ANALYSER MODEL EC-1000 has a specially designed sampling configuration with an inbuilt pump and timer switch and an ultrasensitive oxygen sensor that makes it feasible to accurately measure oxygen contamination in the headspace of flexible food packs or tin cans.

The Headspace Analyser Model EC-1000 incorporates an adapted hypodermic needle to pierce the flexible food packs and draw the gas by means of the inbuilt pump. In the case of headspace analysis of tin cans, Model EC- 1000 when used in conjunction with the tin can piercer device provides the headspace analysis of % oxygen in the tin can of heights up to 380 mm. The high vacuum pump is designed to educt the headspace atmosphere of low internal pressure.

This portable instrument is available with digital read out 0-25% O<sub>2</sub> range in 0.1 % steps with front adjustments for zero, calibration & sampling time.

**FEATURES**

- Internal pump to draw a sample
- Adjustable timer for sample pump
- Quick and accurate response to Oxygen
- Easy to operate by any one
- Portable, light weight.
- Tin can piercer press & stand available with hardened needles

**APPLICATIONS**

The food packaging industry uses modified atmospheres to improve shelf life and quality of nuts, wafers, snack foods, oils, skimmed milk and many other packaged food products within a variety of food packages such as soft packs, pouches, tin cans or bottles.

MODEL EC-1000 provides an analysis method for headspace oxygen that helps quality control by determining the residual oxygen in headspace. MODEL EC-1000 helps to properly adjust the speed of nitrogen gas while packaging. The simplicity of operation of MODEL EC-1000 makes it ideal for quick routine measurements as well as for repetitious laboratory studies.

**STANDARD SPECIFICATIONS**

Display	: 3 1/2 Digit LCD 12 mm high
Range	: 0 - 25 %
Accuracy	: ± 2 % of full range at constant temperature & pressure
Power	: Rechargeable batteries.
Sensor type	: Electrochemical

**CHECK % OXYGEN INSIDE FLEXIBLE FOOD PACKAGES & TIN-CANS**



**TECHNOVATION® MODEL EC-1000**

**STANDARD SPECIFICATIONS CONTINUED**

Sensor life	: 2 years expected life
Working temperature	: 5 — 45 ° C
Gas Eduction	: By internal pump
Pump Suction	: Minimum 8 " Hg Column
Flow	: 0.5 Liter/Minute
Pump Timer	: Adjustable between 3 to 30 Seconds
Size	: 195 x 98 x 155 mm depth
Weight	: 1.5 kg approximately
Calibration	: By ambient air or certified calibration gas

**ACCESSORIES**

- Instruction Manual, ■ Calibration Screwdriver,
- Suitable tubing,
- Hypodermic syringe : With 3 needles and 1 lock 3 way valve.
- Foam Pads : 500 nos pregummed foam pads supplied.
- Carrying case : For Instrument Charger & Accessories
- Battery charger : For instruments with rechargeable batteries

**OPTIONS**

Tin can piercer	: Press Stand, hardened needles and necessary accessories for sampling from hard packs and Tin-cans.
Power Supply	: Mains 220 V AC
Recorder o/p	: 0-1 V corresponding to 0-25 %