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TECHNOVATION
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BVQi
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MODEL IR – 1000   M A P   HEADSPACE CARBONDIOXIDE ANALYSER

THE INSTRUMENT

THE TECHNOVATION® HEADSPACE CARBONDIOXIDE ANALYSER MODEL IR-1000 has a specially designed sampling configuration with an inbuilt pump and timer switch and a NDIR infrared sensor that makes it feasible to accurately measure % CO_2 in the headspace of flexible food packs or tincans.

The Instrument 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 tincans, Model IR-1000 when used in conjunction with the tin can piecer device provides the headspace analysis of % CO_2 in the tin-can of heights upto 380 mm. The high vacuum pump is designed to educt the headspace atmosphere of low internal pressure.

The model works on a rechargeable battery. This portable instrument is available with digital readout 0-100% CO_2 range and 0.1 % CO_2 steps with front adjustments for zero, calibration & sampling the headspace gas.

CHECK % CO_2 INSIDE FLEXIBLE FOOD PACKAGES & TINCANS

TECHNOVATION® MODEL IR-1000

FEATURES

■ Non Dispersive Infrared sensor
■ Internal pump to draw a sample
■ Adjustable timer for sample pump
■ Quick and accurate response to Carbon-Dioxide
■ Easy to operate
■ Portable, light weight, with rechargeable batteries and battery charger.
■ Tincan piecer press & stand available & with hardened needles.
■ Quick warm-up time , no moving parts in sensor

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, tincans or bottles.

MODEL IR-1000 provides an analysis method for headspace CO_2 that helps quality control by determining the residual CO_2 in headspace.

STANDARD SPECIFICATIONS

Display	: 3 ½ Digit LCD, 12 mm high
Range	: 0 – 100 % CO_2 with 0.1 % steps
Accuracy	: $\pm$ 2 % at constant temperature
Power	: 220 VAC 50 Hz 1 Phase
Sensor type	: Non Dispersive Infrared Sensor

STANDARD SPECIFICATIONS CONTINUED

Working temperature	: 5 – 45 º C
Gas Eduction	: By internal pump
Pump Suction	: Minimum 8 " Hg column
Flow	: 0.5 lpm
Pump Timer	: Adjustable between 3 to 30 Seconds.
Size	: 195 x 98 x 155 mm depth
Weight	: 1.5 Kgs Approximately
Calibration	: By certified calibration gas
Warn up time	: 5 minutes to full Specifications

ACCESSORIES

Hypodermic syringe.	Special Needle holder with filter and 3 nos needles
Self adhesive pads	500 Nos. cut pieces of foam for flexible packs
Battery charger	For Rechargeable Battery operated models
Carrying case	For Instrument , Charger & Accessories

OPTIONAL EXTRAS

Tin-Can piercer	Press Stand , hardened needles and necessary accessories for sampling from hard packs and Tin-cans.
Power Supply	Rechargeable battery.