

MAPtest 800 packaging atmosphere analyser



Features

- ◆ Rapid response time
- ◆ Low maintenance and calibration requirements
- ◆ Timed pumped sample
- ◆ Up to thirty hours running time between battery charges



The MAPtest 800 has been designed specifically for measuring oxygen concentrations over a wide range of food packaging and storage atmospheres. Based on a galvanic cell sensor which is unaffected by the presence of carbon dioxide, the unit offers a high degree of accuracy across the range 0 to 100%, and can be calibrated easily on air.

A sample probe or a syringe, both of which are supplied with the analyser, is used to introduce the sample. When the probe is used an in-built pump, activated from the front panel, draws the sample through the probe into the analyser. The pumped volume is adjustable allowing measurements from different pack sizes. Once a measurement is made the result is shown and held on a large 3½ digit display.

The instrument is portable and is fitted with rechargeable batteries which provide from 16 to 30 hours operation, depending on pump use. The unit is housed in a tough ABS case with a carrying handle which doubles as a variable-height tilt foot for bench use. Optionally, a flowing sample kit can be supplied, enabling the operator to check oxygen content from a packaging machine or a gas mixer.

MAP/CAP (modified and controlled atmosphere packaging) techniques are being used increasingly to extend the shelf life of perishable foods, and the MAPtest 800 is ideal for monitoring gas concentrations to help maintain quality control. It can be used in all MAP/CAP retail-ready and bulk packaging applications, including fresh meat, poultry, cooked/cured meats, fruit, fish, prepared salads, vegetables, nuts, pasta and cheese; in perishable-food stores; and in bulk storage areas for fruit such as apples and pears.

SPECIFICATION**Display**

3½ digit LCD with 15mm characters

Cell type

Galvanic

Range

0 to 100%

Resolution

0.1%

Stability

Better than 2% of full scale per month

Speed of response for a flowing sampleLess than 3s for 90% step change for % levels of oxygen
(Figures apply once cell is fully purged)**Cell life**

Up to 5 years

Sample connection

Compression fitting suitable for 0.25 inch (6mm) OD tubing, or via septum for syringe injection.

Sample pressure

Pump on: -100mb G minimum

Sample flow

500ml/min max

Ambient temperature

0 to 40°C

Battery capacity

Pump off: 30 hours

Pump on: 16 hours

Battery charger

Mains: 110 or 240V ac

Vehicle adaptor: 12V dc

Case

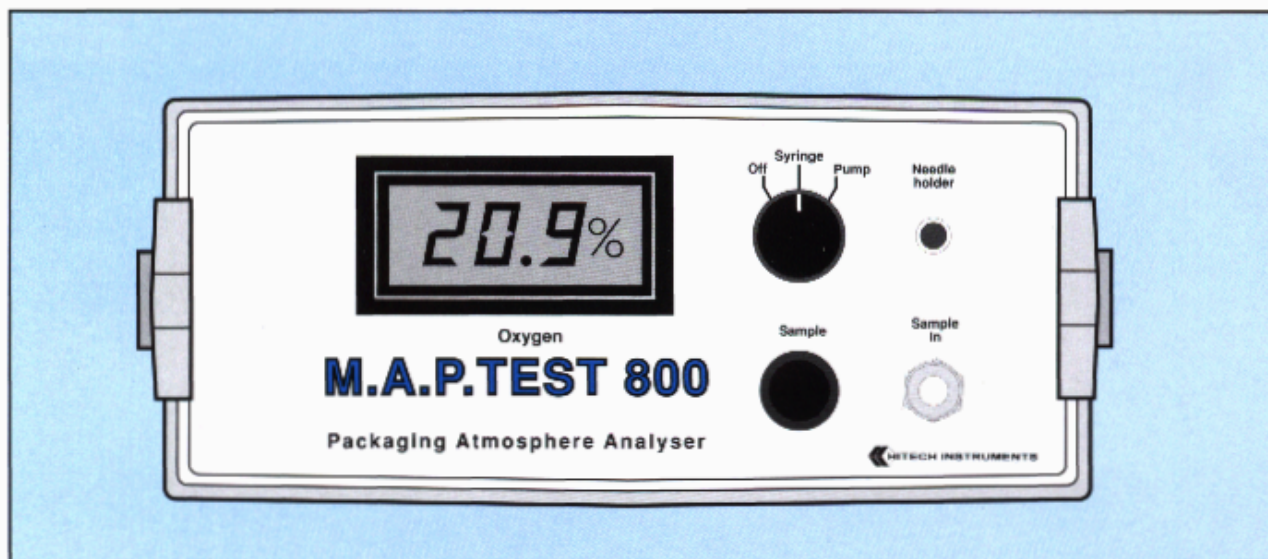
ABS plastic with carrying handle doubling as variable-height tilt foot

Dimensions

250mm wide x 255mm deep x 94mm high with handle parked in forward position

Weight

1.5kg approximately

In keeping with a policy of continuous development, Hitech Instruments Ltd. reserves the right to change any part of this Specification without notice

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