

# AUTOMATIC ELECTRONIC MILK TESTER



## *Application*

The Automatic Electronic Milk Tester performs measurement of fat content in milk.

The percentage of fat content is measured accurately and displayed quickly on a digital display for a convenient read-out by the user and the milk producer.

The instrument is simple and economical for milk fat analysis. It uses a high torque DC Motors to make it reliable, rugged and to perform proper homogenisation of high fat milk sample and accurate mixing of diluents in the milk sample.

Automatic operation of the machine leads more accuracy in the result & improve reliability.

This instrument assists in reducing the physical effort (required in manually operated EMT) and is very useful especially for women operators in the women milk co-operative societies.

## *Features*

- Auto intake of milk sample
- Auto homogenisation
- Auto zero facility
- Measures upto 13% fat
- Accepts small sample volume
- Performs 150-180 tests per hour
- Quick measurement and instant readout
- Easy to read digital display
- Process indication
- RS 232 data output
- Runs on AC mains
- Inexpensive method of testing
- Close correlation to accepted standard methods

## Working Principle

Automatic Electronic Milk Tester works on the principle of photometric measurement of light scattered by the fat globules present in the milk sample. The measuring procedure follows the automated system of dilution, mixing, homogenisation and photometric measurement.

## Specifications

### Performance Data

- Measuring range : 0-13% fat
- Measuring speed : 150-180 samples/hour
- Accuracy (SD) : 0.10 for 0-8% fat  
0.20 for 8-13% fat
- Repeatability (SD) : 0.04 for 0-8% fat  
0.08 for 8-13% fat
- Sample volume : 0.5 ml/test
- Diluent volume : 6.5 ml/test
- Communication : RS 232

### Installation Requirements

- Power supply : AC: 230-240V, 1 $\phi$ , 50 Hz or Battery 12V DC  
(Max + 10%, Min - 15%)
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(Max + 10%, Min - 15%)
- Power consumption : 300 W (Max)
- Ambient temperature : 5-45°C
- Dimensions (HxWxD) : 470mm x 350mm x 240 mm
- Space requirement : 1000mm x 500mm x 500 mm
- Weight (without diluent) : 17.5 Kg.

## Certification

Product is tested by ETDC, Bangalore for guaranteed technical specifications.

## Regional Offices

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