ULTRASONIC MILK ANALYSER

**Description**

The Ultrasonic Electronic Milk Analyser performs measurement of Fat & Solid-not-Fats (SNF) content in milk.

The percentage of Fat & SNF content is measured accurately and displayed quickly on a Ultrasonic Milk Analyser LCD for the convenient read-out by the user and the milk producer. The instrument is simple, economical, reliable and rugged for milk analysis.

This instrument can also be integrated with Automatic Milk Collection Unit for quick measurement of milk parameters, processing and storing them for records. The instrument is ideally suited for the village milk collection centers, milk chilling centers etc. and milk testing laboratories.

**Features**

- Microprocessor based state-of-art technology
- Displays % FAT, Solid-not-Fats (SNF) & Added Water
- Display of Protein, Lactose, Density & Freezing Point is optional
- Provision of auto cleaning & field calibration.
- Suitable for Raw, Fresh and homogenised milk
- Small sample volume of 10 ml (approx).
- Performs 55-60 tests per hour
- Quick measurement and instant digital read-out on LCD
- RS 232 data output
- Low power consumption
- Reliable & rugged design, suitable for rural environment
- Operator friendly-easy to maintain & simple to use
- Simple & inexpensive method of milk analysis
- Close correlation to accepted standard methods

**Working Principle**

The Ultrasonic Electronic Milk Analyser works on the principle of Ultrasonics. The signals allowed to pass through the sample are measured digitally for accurate display.

**REIL**

*Shaping Rural India*

*Through Electronics, Energy, Information Technology & Communication*
Technical Specifications

Performance Data

Processing : Micro-processor controlled
Display : 16 Characters x 2 Lines LCD display for FAT, SNF & Added Water
          Display of Protein, Lactose, Density & Freezing Point Optional
Measuring Range : FAT 0 to 12% & SNF 0 to 12%
Accuracy : FAT 0.15SNF 0.15
Repeatability (SD) : FAT & SNF 0.05
Sample Volume : 10ml/ test (reusable)
Sample Temperature : 25 to 35 C
Measurement Time : 55 Seconds per Sample (Typical)
Port : Serial port for data transmission to PC
Power Consumption : 100 Watts max.

Installation Requirements

Power Supply : AC Supply 230V (+10%,-15%), 50Hz, 1-, (1 Amp Max.),
Ambient Temp. : 5 - 45 C
Space : 500mm x 500mm x 500mm max.

Ultrasonic Milk Analyser has been designed & manufactured for the first time in India by Rajasthan Electronics & Instruments Limited.

Regional Offices

Gujarat
Anand 094260 09337 094498 12925
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Bangalore 093009 48211
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The above specifications are subject to change without prior notice in order to provide you the best available and acquired for continual improvement.