



ELECTRONIC MILK ADULTRATION TESTER WITH ANALYSER



Application

The Electronic Milk Adulteration Tester with Analyzer (EMAT+) is an ideal and low cost solution for accurate analysis of milk parameters and to discriminate between genuine and spurious milk. It detects adulterants in raw milk, which are hazardous to human health.

The instrument works on the principle of ultrasonic and detection of specific ions of adulterants present in the milk sample. The detection procedure follows the steps of intake, dilution, mixing and analysis.

Detected signal is processed through embedded software and results are displayed quickly and accurately on a digital display for the convenient read-out by the user.

The instrument is accurate, simple, economical, reliable and rugged for analysis of compositional parameters and to identify adulterants present in the Milk.

The instrument is suitable for the Village Milk Collection Centers, Milk Chilling Centers, Dairy Plants and Milk Testing Laboratories.

Features

- Check majority of harmful adulterants
- Measures Fat, SNF, Protein, Lactose, density & added water
- Performs 90-100 tests per hour
- Low sample volume
- Inexpensive method for testing of milk purity
- User friendly operations
- Easy cleaning
- Close correlation to accepted standard methods
- Green technology, no hazardous chemical
- · Easy to read digital display
- Quick measurement and instant read-out
- RS 232 data output
- Runs on mains or battery
- Online recording of analyses data on SD card

REIL Shaping Rural India Through Electronics, Renewable Energy & IT Solutions

Specifications

Performance Data							
Milk type	:	Cow, buffalo and mixed milk.					
Measuring Speed	:	90 - 100 samples per hour					
Parameters	:	Fat, SNF, Protein, Lactose, density & added water					
Calibrated Adulterants	:		Sulphate, Salt (Sodium Chloride),				
		Hydrogen Peroxide, Soda (Sodium bi Carbonate) and Caustic					
		Soda.	·				
Measuring Range	:	Fat	0.01% to 25%				
6 6		SNF	3% to 15%				
		Protein	2% to 7%				
		Lactose	0.01% to 6%				
		Density	1015 to 1040 Kg/m3				
		Added water	0% to 70%				
Accuracy	:	Fat	± 0.10%				
Accuracy	•	SNF	+ 0.15%				
		Protein	$\pm 0.15\%$				
		Lactose	$\pm 0.13\%$ $\pm 0.20\%$				
		Density	$\pm 0.3 \text{ Kg/m3}$				
		Added water	$\pm 3.0\%$				
		Added water	<u> </u>				
Minimum limits of Detection			it of detection %				
		Urea	≥0.1 %				
		Ammonium Sulphate	≥0.2 %				
		Salt	≥0.2 %				
		Detergent	≥0.3 %				
		Hydrogen Peroxide	≥0.3 %				
		Soda (Sodium bi Carbonate)	≥0.3 %				
		Caustic Soda	≥0.3 %				
Initialization time	:	Max 10 Minutes					
Sample temperature	:	Milk temperature: 25 °c to 40 °c.					
Sample volume	:	18 ml.					
Cleaning	:	Easy cleaning					
Display	:	LCD display					
Data interface	:	SD Card and RS232					
Installation Requirements							
Power supply	:	220 V 10% AC, 50 Hz.					
Power consumption	:	< 90W					
Ambient air temp.	:	5 °c to 50 °c.					
Relative humidity	:	Up to 95%					
Dimensions	:	W x D x H : 251mm x 194mm x 207mm					
Weight	:	13.5 kg					
Decional Officers		~					

Regional Offices

Anand	Bangalore	Bhopal	Chandigarh	Hyderabad	Jaipur	Lucknow	Patna
02692-261794	080-22295783	0755-2418984	0172-2682329	040-27000151	0141-2470784	0522-2719122	8084048563

For further information contact:

Marketing Department, Tel: +91-141-2470784, E-mail: electronics@reil.co.in



RAJASTHAN ELECTRONICS AND INSTRUMENTS LIMITEI(An ISO 9001;14001 "Mini Ratna" Central Public Sector Enterprise)2, Kanakpura Industrial Area, Sirsi Road, Jaipur-302 034 (Raj.) IndiaEPABX Tel: +91-141-2470062, 2470363 Fax: +91-141-2470139E-mail: reiljp@reiljp.comWebsite: www.reiljp.com



The above specifications are subject to change without prior notice in order to provide you the best available and acquired for continual improvement.