

ADVANCED DATA PROCESSOR MILK COLLECTION UNIT (SPV BASED)



Description

Advanced Data Processor Milk Collection Unit is a dedicated unit, which receives, processes and transmits data to server (MILKNeT+). It communicates with following dairy peripherals via serial cables or bluetooth:

- Electronic Milk Analyzer (EMA) or Electronic Milk Tester (EMT)
- Remote Digital Display
- Thermal Printer & 40/80 Column Dot matrix Printer
- Electronic weigh scale

It is an advanced and latest version of DPMCU Product line, with cutting edge technological features incorporated. Advanced DPMCU inculcates advance features like 4G/ Wi-Fi connectivity, USB interface for file transfer, USB keyboard, Bluetooth interface, (4x4) matrix keypad and remote update of firmware etc.

Advanced DPMCU is a smart versatile solution which receives, stores and processes the data to generate the various reports in desired formats. Data communicated to BMC/MCC Center/Head office via network interface (4G or WiFi) can be further processed for validations, audit, payment and MIS purpose etc.

Features

- Rugged to work in rural conditions.
- High-performance ARM Cortex®-M7 32-bit Processor.
- Instant processing of data for payment.
- Remote firmware upgrade.
- Instant data upload/download from centralized Server.
- 2G/3G/4G with Wi-Fi/Bluetooth Connectivity
- PS2 keyboard/USB Keyboard support along with 4x4 matrix keypad.
- Data encryption feature
- RS232/USB communication, multiple channels to connect peripherals.
- Rate chart of Milk as per FAT/SNF can be entered.
- Passbook/Payment register for a month/year can be printed and stored.
- Settings are password protected.
- Customizable as per regional requirements such as language etc.
- Auto shift initialization & system health check Centralized testing.

Advanced Data Processor unit	
Processor	: ARM Cortex®-M7 32-bit Processor
Cabinet	: Stainless Steel
Keyboard/Keybad	: PS2/ USB Keyboard & 4x4 Matrix
Display	: 128x64 Graphics LCD
Communication	: UART Interface
Data Storage	: Micro SD Card (1000 members for 2+ Years)
Network Support	: 2G/3G/4G with Wifi/Bluetooth
"Latest Feature"	: FOTA (Firmware Over The Air)remote firmware update
Power Consumption	: Fat32 based faster file system" : 60 Watt Max

Thermal/Dot Matrix Printer(DMP)	
Thermal Printer	
Print Mentod	: Thermal Direct Line Printing
Paper Width	: 57mm
Input Power	: 12 V
Dot Matrix Printer (Optional)	
Width	: 40 column /80 Column DMP
Speed	: 4.5 LPS/ 360 CPS
Power consumption	: 40 Watt/ 80 Watt Max.

USB Pen Drive/Sr. Pen Drive	
Memory	: Min 1 GB
Feature	: Data in Encrypted Form
Interface	: USB/RS232 Serial
Serial Pendrive (Optional)	

Remote Display Unit	
Type	: Wall Mounted
Paramter	: Member No., Weight, FAT, SNF, RATE, Amount, Milk Type(Optional)
Interface	: RS232/Bluetooth
Display Type	: Bright 7 Segment RED LED
Cables	: Power Cable
Cabinet	: MS Powder Coated/ Molded Plastic, IP55
Power Consumption	: 12 W max

SPV in Nieu of UPS	
Capacity	: 75 Watt SPV Module
Battery	: 12V/75 AH, Low Maintenance
Electronic Charger Unit	: To Power DC to Advanced DPMCU

Electronic Weigh Scale	
Capacity	: 60 Kgs./200 Kgs.
Least Count	: 10 Grams/20 Grams
Accuracy	: As per CLASS-III
Resolution	: As per CLASS-III
Display Mode	: Kg. to Ltr. Mode
Load Cell	: Single, IP67, SS Grade,
Over Load &	: 150% of full load with audio visual
Shock Protection	: indication.
Platform Size	: 400 X 400 mm/600x600 mm
Platform Cover	: SS 304, 1.5 MM top plate.
Platform Frame	: SS 202/Zink anodised/Hot Dip, galvanized box pipe screw
Platform Screw	: 4 Shock absorbing rubber sceew with SS Bolt
Display	: 6 Digit, 7 Segment Red/Green LED
Mode	: Kg./Liter, Net, Tare and Gross
Communication	: RS232 Serial/Bluetooth
Calibration	: Auto Calibration
Cabinet	: MS Powder Coated/Molded Plastic /SS IP55 with Tactile Keyboard
Power Consumption	: 20 Watt Max.

Uninterrupted Power Supply (UPS)	
Capacity	: 1.0 KVA (Minimum)
Type	: Line Interactive Type
Voltage at input	: 160 Volts to 280 Volts
Voltage output	: 230 ± 10% Volts (AC)
Frequency stability	: ± 0.5%
Noise level	: <35 db
Full protection	: Under/over voltage, Low battery voltage, Over Load, Short circuit
Operating	: Temp. 5° C to 50° C, 90% RH, Dusty environment
Battery	: 12V, 75AH Industrial Tubular

Regional Offices

Anand	Bangalore	Bhopal	Chandigarh	Hyderabad	Jaipur	Lucknow	Patna
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Marketing Department, Tel: +91-141-2470784, Fax: +91-141-2470784, E-mail: electronics@reil.co.in



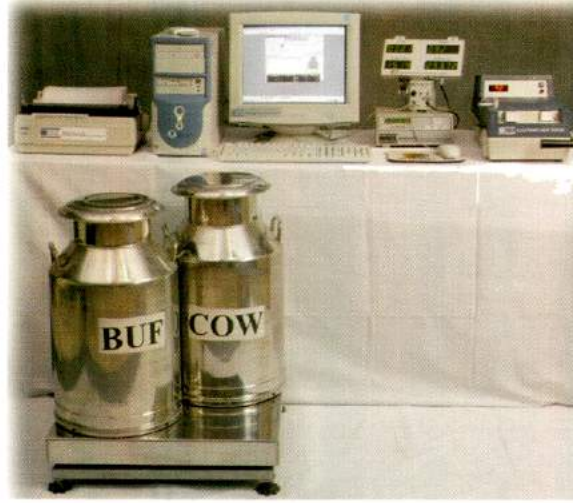
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AUTOMATIC MILK COLLECTION UNIT



Description

The Automatic Milk Collection Unit (AMCU) is an integrated unit, comprising of following:

- Electronic Weighing Scale
- Electronic Milk Tester
- Personal Computer
- Society Accounting & Management Software
- Dot Matrix Printer
- Digital Indicator
- Uninterrupted Power Supply

The system is suitable for instant weighing of the milk, measurement of fat content and calculating the amount payable to the individual member based on fat and weight.

This system can also be used for maintaining the complete records of the village co-operative society together with details of all transactions.

This system can perform 120-150 operations in an hour. The sequence of operation require pouring of milk in weighing milk Can, collection of milk samples at the time of pouring, entering the member code through keyboard, measurement of fat content, calculation of payment and printing of payment slip.

Society Accounting & Management Software covers computerisation of the various activities of a village co-operative society. The total solution including computerisation is conceived, designed, developed and customised for the dairy sector.

The work of society was performed manually by the society staff till recent years, which used to take considerable time and efforts of all those involved in execution of the aforesaid work. Like any such operation, the job is governed by the procedures, practices and associated rulings on the matter. On initiative of the NDDDB, the job is automated through computerisation in different phases.

The package has been developed in various regional language i.e. Hindi, Gujarati, Kannad, Teugu, Marathi, Gurumukhi, etc. for both milk collection as well as society accounting and management.

ENGLISH



KANNAD



GUJARATI



TELUGU



Specifications

Electronic Weighing Scale

Designed and Marketed by REIL conforming to "Standards of Weight and Measure (General) Rules 1987" as amended upto date

- Capacity : 200 Kg.
- Resolution : 20 Gms
- Load cell : Stainless steel
- Platform size : AISI SS 304, 1.5mm thick & size 600mm x 600mm polished to 150 grit
- Battery backup : In-built battery backup during power failure

Electronic Milk Tester

- Measuring range : 0-13% fat
- Speed : 120-150 samples/hour
- Accuracy (SD) : 0.06 for 0-5% fat
0.10 for 5-8% fat
0.20 for 8-13% fat
- Repeatability (SD) : 0.03 for 0-5% fat
0.04 for 5-8% fat
0.08 for 8-13% fat
- Sample volume : 0.5 ml/test
- Diluent volume : 6.5 ml/test
- Communication : RS 232

Dot Matrix Printer

24 Pin 80 Column Dot Matrix Printer

Personal Computer (PC) *

Business class with Microsoft & DMI 2.0 certified

- Intel Dual Core CPU with Intel Chipset, 160 GB HDD-7200 rpm
- 15" TFT Colour Monitor
- Combo Drive (CD/RW/DVD), Speakers & Micro Phone
- Win MM Keyboard,
- Optical mouse with pad., On board 10-100 E-net
- 4 USB, 2 Serial, 1 Parallel Ports, 1 KBD Port
- Internal 56.6 kbps D link modem
- **Operating System:** The operating system will be a licensed Preloaded Win Vista version with backup CD
- **Application Software:** REIL SAMS in accordance with "A system study report of a Typical Dairy Co-operative Society"

* Specifications are subject to change as per stock availability and standard from International manufacturers.

Digital Indicator

- Display type : 7 Segment GREEN LED of 25mm height
- Display indication : Member Code, %Fat, Weight & Amount

Uninterrupted Power Supply

- Capacity : 1400VA/1500 VA/2000VA
- Type : Line Interactive Type
- Voltage at input : 160 Volts to 280 Volts
- Voltage at output : 230 ± 10% Volts (AC)
- Full protection : Under/over voltage, Low battery voltage, Over load, Short circuit, No load protection against spikes
- Backup time : 3 hrs minimum in fully charged condition

Features

- **Society Management**
 - Society / Member Registration
 - Member Shares
 - Milk Rates / Chart
- **Milk Management**
 - Milk Collection / Local Sales/ Dairy Sale
 - Milk Received at Dairy
 - Milk Payments / Daily Register
 - Member/ Shift / Month / Yearly / Bonus Reports
- **Inventory Management**
 - Stock Register
 - Material Purchase
 - Material Sales
- **Accounts Management**
 - Trial Balance
 - Day / Cash / Bank Book
 - Ledger Accounts
 - Profit & Loss / Balance Sheet

Regional Offices

Andhra Pradesh	Gujarat	Karnataka	Madhya Pradesh	Punjab	Bihar	Uttar Pradesh	Rajasthan
Hydrabad	Anand	Bangalore	Bhopal	Chandigarh	Patna	Lucknow	Jaipur
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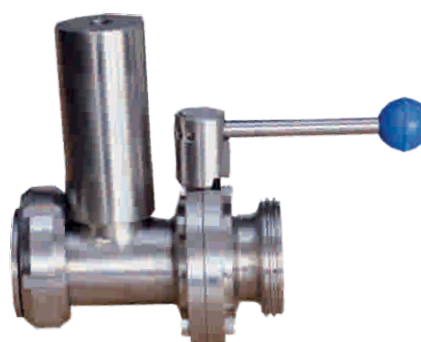
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BMC DATA LOGGER



Description

REIL is leader in the field of Dairy sector for supplying state of art Milk collection systems, Milk Analyzers etc to strengthen the village milk cooperative societies all over the country. BMC Data logger is designed to online monitor critical parameters of BMC

The objective of the BMC data logger is to provide online monitoring of milk temperature and volume stored at BMC and to protect the milk from getting sour and spill over. The real time data of milk stored at various BMC help in better management of milk at Dairy.

In addition with volume & temperature it also provide near real time data of compressor, agitator, generator and grid supply. Various alarms are also designed for emergency conditions such as temperature violation, DG, GRID, Compressor events or agitator events, Milk Volume lifting Events, CIP detection.

Web and mobile application developed to monitor various parameters related to BMC and to provide daily, weekly and Monthly reports.

Features

- Standard RTD temperature sensor
- Precision pressure sensor for volume measurement.
- Data logging of Milk temperature and milk Volume vs time.
- Data logging of power, DG, GRID, compressor and agitator.
- Alerts for temperature violation, DG, GRID Compressor & agitator events Milk Volume lifting event (Volume above 1% of Capacity)
- User level access control
- Local Data Storage
- System & sensor/ peripherals, health checkup and status on server.
- SMS alert on registered mobile
- Data uploaded on web & mobile application.
- Comparative analysis of BMC
- System and peripheral health status on server
- SS 304 food grade assembly
- Power consumption with duration & KWh
- Hot CIP adherence
- Daily, Weekly & Monthly reports on web application.

Hardware Features

BMC Data logger takes the data of milk temperature, volume from RTD temperature sensor, pressure transmitter and convert into digital form. The temperature & volume data along with power supply data are uploaded to web application. It also provide emergency alarm for critical parameter violation.

Specifications

1. BMC Monitoring Unit

- Processor : AVR Microcontroller
- Display : 128 X 64 Graphic LCD, Blue STN, White LED Backlight
- Data Storage Capacity : Up to 16 GB on SDCARD
- Programming : Onboard
- SIM Network : GSM/GPRS 2G/3G/4G LTE
- Sensors : Temperature, Volume in term of pressure, Agitator & Compressor ON/OFF, DG & GRID ON/OFF
- Indicators : Power, Network, DG, GRID, Compressor 1 & 2, alarms
- Operating Range : 5-65°C
- Power supply : AC: 230/440V, 1 ϕ /3 ϕ , 50 Hz or Battery 12V DC (Max + 10%, Min - 15%)
- Power consumption : 50 W (Max)

2. Sensor Module

- Temperature sensor : RTD 0-80°C
- Volume Measurement : Through Pressure Sensor upto 10K Litre
- Housing of sensors : SS304 with IP68 compliant
- Accuracy- Temperature : +/- 1.0 °C
- Accuracy- Volume : +/- 0.3% to 0.5% of BMC Volume

3. Web & Mobile Application

- Platform : Android as well as iOS Platform
- Dash board : For monitoring of important parameters
- Reports : Milk Temperature, volume, lifting time, CIP, Compressor & DG running time, Cooling Duration, Power consumption, fault, performance, deviation, comparative analysis, monthly reports location, capacity & BMC Manufacturer wise.

Regional Offices

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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

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 : **Urea, Detergent, Ammonium Sulphate, Salt (Sodium Chloride), Hydrogen Peroxide , Soda (Sodium bi Carbonate) and Caustic Soda.**

Measuring Range : Fat 0.01% to 25%
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 $\pm 0.10\%$
SNF $\pm 0.15\%$
Protein $\pm 0.15\%$
Lactose $\pm 0.20\%$
Density $\pm 0.3 \text{ Kg/m}^3$
Added water $\pm 3.0\%$

Minimum limits of Detection	Adulterants	Limit of detection %
	Urea	$\geq 0.1 \%$
	Ammonium Sulphate	$\geq 0.2 \%$
	Salt	$\geq 0.2 \%$
	Detergent	$\geq 0.3 \%$
	Hydrogen Peroxide	$\geq 0.3 \%$
	Soda (Sodium bi Carbonate)	$\geq 0.3 \%$
	Caustic Soda	$\geq 0.3 \%$

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

Regional Offices

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ELECTRONIC SYSTEM FOR ANALYSIS OF MILK QUALITY & ADULTERATION



Description

The Electronic System for Analysis of Milk Quality & Adulteration is an integrated unit, comprising of following

- Electronic Weighing Scale
- Electronic Milk Adulteration Tester with Analyzer
- Personal Computer
- Digital Indicator
- Society Accounting & Management Software
- Dot Matrix Printer
- Uninterrupted Power Supply

The system is suitable for instant weighing of the milk, measurement of Fat, SNF, Protein, Lactose, Density, Added water, Milk Adulterants and calculating the amount payable to the individual member based on Fat, SNF and Weight.

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.

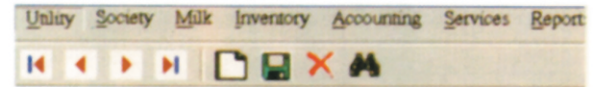
Detected signal is processed through embedded software and results are displayed quickly and accurately on a digital display for the convenient read-out by the user.

This system can perform 90-100 samples in an hour. The sequence of operation require pouring of milk in weighing milk Can, collection of milk samples at the time of pouring, entering the member code through keyboard, measurement of Fat SNF, Protein, Lactose, Density, Added water, Milk Adulterants, calculation of payment and printing of payment slip.

Society Accounting & Management Software covers computerization of the various activities of a village co operative society. The total solution including computerization is conceived, designed, developed and customized for the dairy sector

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

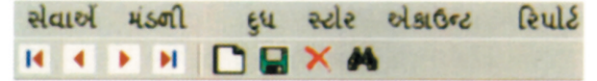
ENGLISH



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Specifications

EMAT+

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	: Urea, Detergent, Ammonium Sulphate, Salt (Sodium Chloride) Hydrogen Peroxide, Soda (Sodium bi carbonate) and Caustic Soda.
Adulterants	
Measuring Range	: Fat 0.01% to 25%
	: 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 $\pm 0.10\%$
	: SNF $\pm 0.15\%$
	: Protein $\pm 0.15\%$
	: Lactose $\pm 0.20\%$
	: Density $\pm 0.3 \text{ Kg/m}^3$
	: Added water $\pm 0.10\%$
Minimum limits of Detection	
	Adulterants Limit of detection %
	Urea $\geq 0.1 \%$
	Detergent $\geq 0.3 \%$
	Ammonium Sulphate $\geq 0.2 \%$
	Salt $\geq 0.2 \%$
	Hydrogen Peroxide $\geq 0.3 \%$
	Soda (Sodium Bi Carbonate) $\geq 0.3 \%$
	Caustic Soda $\geq 0.3 \%$
Initialization time	: Max 5 Minutes
Sample Temperature	: Milk temperature: 25°C to 50°C.
Sample volume	: 18 ml.
Cleaning	: Easy cleaning
Display	: LCD display
Data interface	: SD Card and RS232

Personal Computer (PC) *

- Dual Core CPU with Intel Chipset
 - Minimum 2 GB DDR RAM,
 - Minimum 500 GB HDD
 - 18.5" LCD/LED TFT Colour Monitor
 - Combo Drive (CD/RW/DVD), Speakers & Micro Phone
 - Wom MM Keyboard
 - Optical mouse with pad, on board 10-100 E-net
 - 4 USB, 2 Serial, 1 Parallel Ports, 1KBD port
 - Operating System: The operating system will be a licensed Preloaded Win 8.1 / Win 10 home with backup CD
 - Application Software: REIL SAMS in accordance with "A system study report of a Typical Dairy Co-operative Society"
- * Specifications are subject to change as per stock availability and standard from international manufacturers.

Digital Indicator

- Display Type
7 Segment Green LED of 12.5 / 25 mm height
- Display indication
Member Code, %Fat, %SNF, Weight, Rate & Amount

Dot Matrix Printer

24 Pin 80 Column Dot Matrix Printer

Electronic Weighing Scale

Designed and Marketed by REIL conforming to "Standards of Weiright and Measure (General) Rules 1987" as amended upto date.

- Capacity : 200 Kg
- Resolution : 20 Gms
- Load cell : Stainless Steel
- Platform size : AISI SS 304, 1.5mm thick & size 600mmx600mm polished to 150 grit
- Battery backup : In-built battery backup during power failure

Uninterrupted Power Supply

Capacity	: 1400 VA/ 1500VA/2000VA
Type	: Line Interactive Type
Voltage at input	: 160 Volts to 280 Volts
Voltage at output	: 230 \pm 10% Volts (AC)
Full protection	: Under/over voltage, Low battery voltage, Over load, Short circuit, No load protection againes spikes
Backup time	: 3hrs minimum in fully charged condition

Features

- Society Management
- Society / Member Registration
- Member Shares
- Milk Rates / Chart
- Inventory Management
- Stock Register
- Material Purchase
- Material Sales
- Milk Management
- Milk Collection / Local Sales / Dairy Sale
- Milk Received at Dairy
- Milk Payments / Daily Register
- Member/ Shift/ Month/ Yearly/ Bonus Reports
- Accounts Management
- Trial Balance
- Day / Cash/ Bank Book
- Ledger Accounts
- Profit & Loss / Balance Sheet

Regional Office

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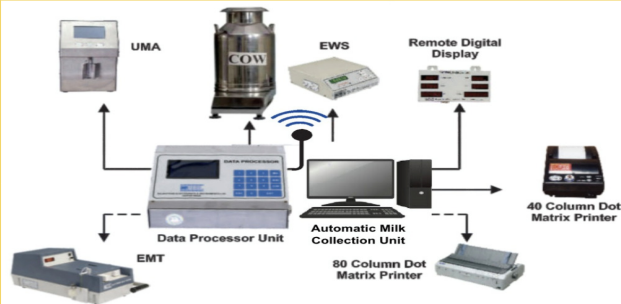
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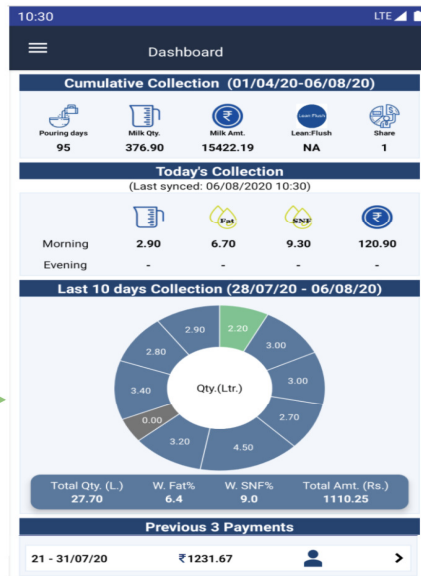
Milk Producers Mobile Application



DPMCU/AMCU at MPCs

(Milk collection data being processed and then sent to server)

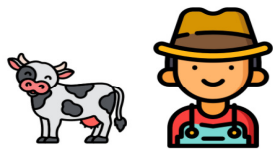
Data collected by DPMCU/AMCU is uploaded on server



Cloud Server

(Data analysis, data storage, APIs/Web Services)

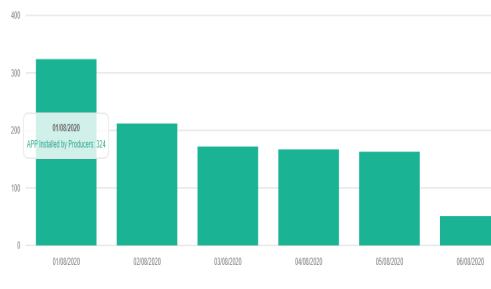
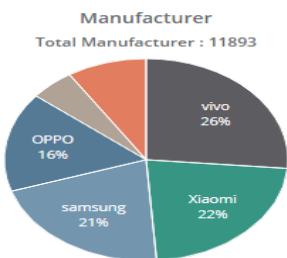
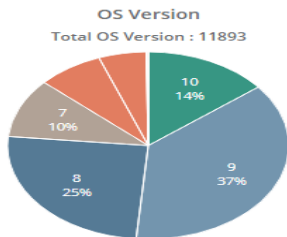
Milk Farmer registration via backend web portal



Download the application from play store and login into his/her account

Milk Farmer

(Uses the mobile application to see his/her data with many other features like interactive dashboard, real-time notifications, reports, news updates, user profile etc.)



About Milk Producers App

Milk Producers App is an online cloud based platform which enables easy and efficient milk collection reporting at various Societies/MPPs and easy to use user interface and user friendly mobile application for Milk Farmers.

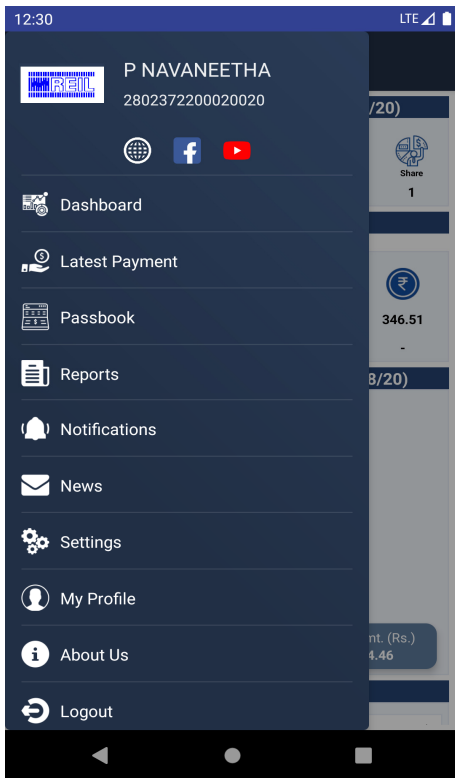
Milk Producers Mobile Application is used to view/monitor the various activities involved in the process of Milk Collection at Society/MPP level by the Milk Farmer. All the data from AMCU/DPMCU will be transferred online to the cloud server and that data will be immediately pushed to the Milk Producers App where Milk Farmer can see his/her milk transactions, payment cycle data, passbook data etc.

Online Dashboard & Reports (Web Interface)

This is used for mobile app user registration and reporting purposes to view and track the daily usage, overall installation progress, notification status of mobile application users i.e. Milk Farmers at Society/MPP level.

Features of Web Interface

- Automatic Bulk User Creation and registration for Mobile App
- Registration, activation-deactivation, reset mobile app user
- Member Collection Notifications
- News and General Notifications sending feature to mobile app user
- Notifications success and failure status
- MIS reports related to registration, installation and reason for non-registration
- Online Dashboards showing details like OS version, Mobile Manufacture, Service provider and graphical representation of installation status of mobile app users



Benefits of the App for Milk Farmers:

- Daily online monitoring of milk poured at MPP/Society.
- Transparency in milk rates.
- Users can compare their own growth based on the last 3 payment cycles on dashboard.
- Real-time push notifications related to milk collection of Mobile App user

Users can check their milk poured details for a given date range anytime anywhere using passbook feature.

Features of App for Milk Farmers

Dashboard: Cumulative collection of milk for last financial year, Today's milk collection, Last 10 days milk collection, Previous 3 payment cycles.

Payment Cycle Data: View all the detailed milk transactions containing parameters like Fat, SNF, Rate, Amount etc. with both Morning and Evening shifts for that selected payment cycle, represented in both graphical and textual forms along with payment details with various additions and deductions parameters

Passbook: Individual milk transactions (milk poured) for the user selected date range containing all the details like Fat, SNF, Rate, Quantity, Amount.

Member Profile: View milk farmer details such as Plant Name, CC Name, Society Name along with all his/her basic details. Users can also change password from the Profile screen.

Alerts: Users get notified whenever a new milk transaction is done at Society/MPP and the transactions alerts are saved and can be viewed in Alerts screen.

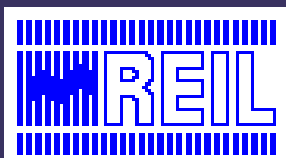
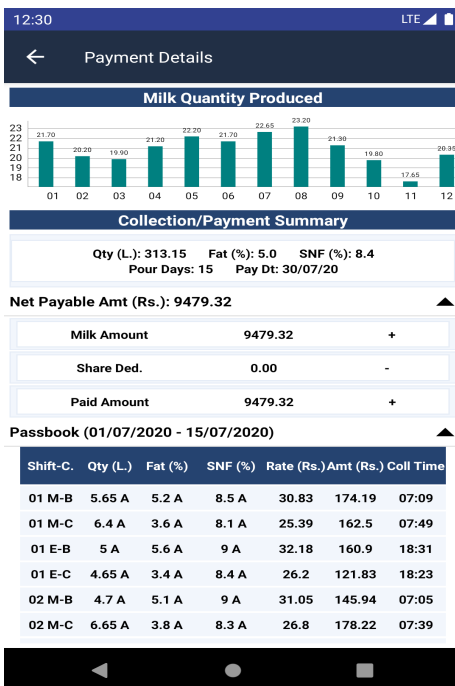
General Notifications : Any general notifications which needs to be shared with multiple users at the same time.

News: Any group notifications or news which needs to be shared with multiple users at the same time.

Multi-lingual: User can change the app language to English or regional i.e. Hindi, Punjabi and Telgu from settings screen.

Social Media Links: User can view the social media links like Facebook, YouTube, and company's website of the respective organizations

MIS Reports: User can view their milk collection and payment data for any financial year and month wise.



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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

SOMATIC CELL COUNTER



Description

SOMATIC CELL COUNTER is based on fluorescent microscopic technique for somatic cells count. The fluorescent dye, LED optics and CCD technologies takes pictures and analyses the somatic cells in the milk. It is precise, reliable and quick.

In order the number of the somatic cells to be counted with SOMATIC CELL COUNTER, the milk sample is mixed with dye Sofia Green. It is necessary only 12 μ L from the ready sample to be pipetted directly on the disposable micro fluidic. Then the chip is placed in the device. For a period of between 20 seconds to 1 minute the analyses is conducted. Duration depends on the complexity and the number of the snapped fields. SOMATIC CELL COUNTER is automatically focused on the chip and colored cells are taken pictures of with the CCD camera. SOMATIC CELL COUNTER takes 16 pictures of the sample in each camera and with special algorithm makes the analyses. The algorithm for analyzing the digital images determines the number of the fluorescent cells and calculates their concentration. The result is automatically displayed.

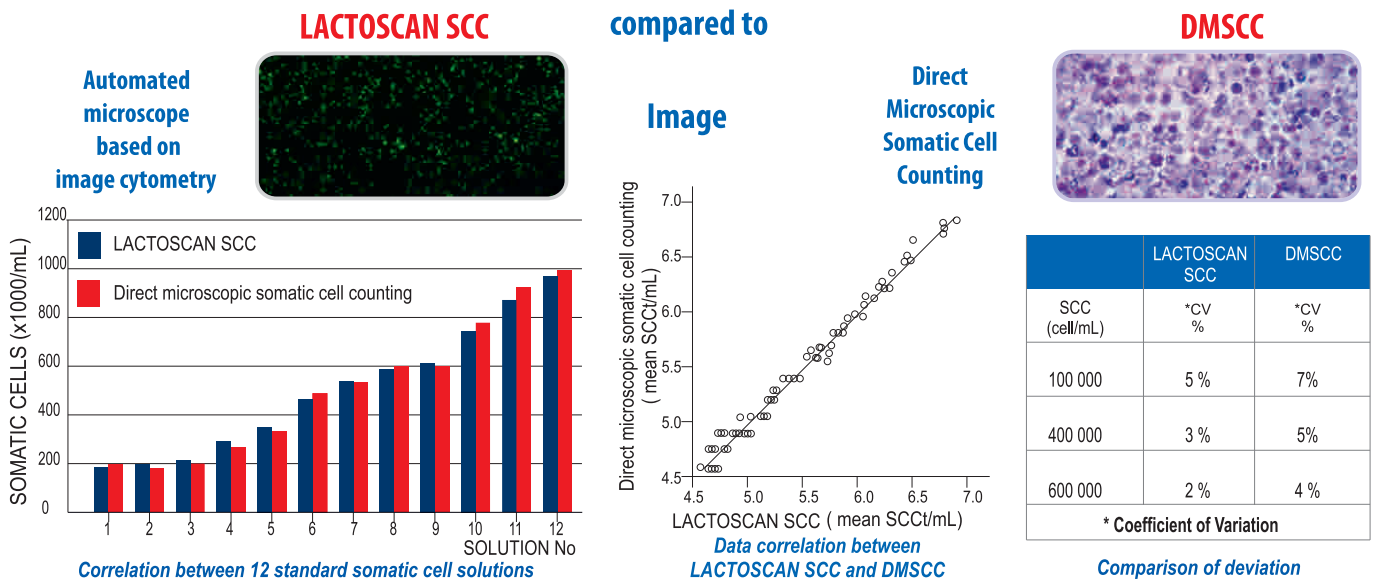
The instrument is accurate, easy to use, Portable and low cost solution for instant analyses of somatic cells in the raw milk.

Features

- Simple in operation
- Fast somatic cell analysis
- Accurate and reliable results
- Portable and compact design
- Low maintenance cost
- One year full warranty
- Wi-fi fast autofocus device
- Analysis time < 1 minute
- Automated microscope based on image cytometry with ultrafast precise liquid autofocus and cell counting software
- Wireless keyboard and mouse
- Store unlimited number of records in the database
- Automatic software update and remote service
- Detection of yeast mastitis

Specifications

<p>Performance Data</p> <p>Milk type : Cow, buffalo and mixed milk</p> <p>Measuring Speed : > 60 tests per hour</p> <p>Time of Analyses : 20 Seconds to 01 minute (Depends on number of pictures)</p> <p>Measuring Range : 10000 to 10000000 cell/ml</p> <p>Deviation SCC (cell/ml): CV%</p> <p>100000 : 5%</p> <p>400000 : 3%</p> <p>600000 : 2%</p> <p>Sample temperature : Milk temperature: 1 °c to 40 °c</p> <p>Sample volume : 12 µl</p> <p>Display : LCD display</p> <p>Data interface : USB (4 Gigabyte)</p>	<p>Installation Requirements</p> <p>Power supply : AC: 220 V 10% 50 Hz., DC: 12 V, 5A</p> <p>Power Consumption : < 60 W</p> <p>Ambient temp. : 10 °c to 40 °c.</p> <p>Relative humidity : 30% to 80%</p> <p>Dimensions : W x D x H : 205mm x 305mm x 290mm</p> <p>Weight : 9.0 kg</p> <p>Consumables</p> <p>1. Sofia Green Agent Kit : 400 Tests</p> <p>2. Disposable Micro fluidic : 200 Tests Chip Kit</p>
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Regional Offices

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02692-261794	080-22295783	0755-2418984	0172-2682329	040-27000151	0141-2470784	0522-2719122	8084048563

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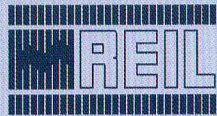


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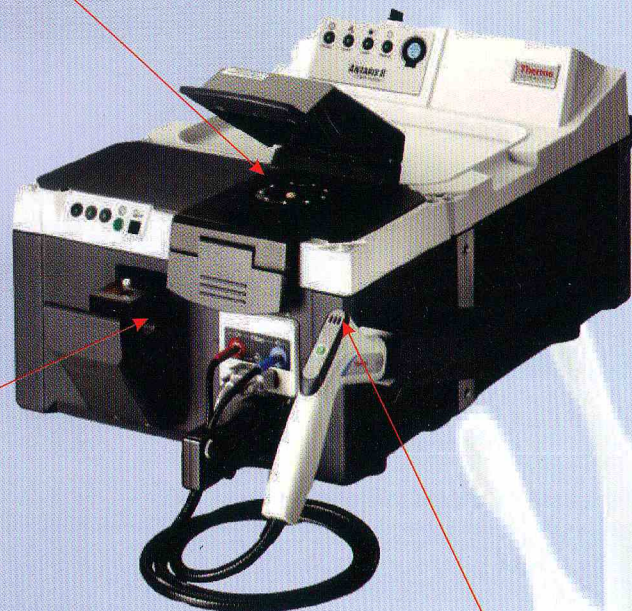


ThermoFisher
SCIENTIFIC
MOLECULAR SPECTROSCOPY

FT-NIR ANTARIS IITM

Analyser for Dairy Labs & Plant (At line & Online)

Reflection Sampling
(Integrating Sphere)



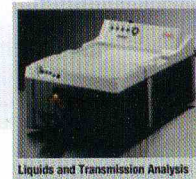
Liquid & Films
Transmission
(Transmission
Module)

Solids & Liquids
in situ (Fiber optic
Probe)

APPLICATIONS

- ✓ Cattle Feed Analysis
- ✓ Milk Powder-
(Fat, Protein, Moisture)
- ✓ Daily Food Products
 - Cheese
 - Butter
 - Chocolates
 - Many more calibratable Module

Thermo Scientific Nicolet Antaris II FT- NIR offers a good choice for quality testing of dairy food & feed sample analysis. It saves time, money & cover wide spectrum of daily milk product analysis.



For any query drop mail at electronics@reil.co.in or connect at 09428823860.

REIL

Shaping Rural India

through Electronics, Renewable Energy and IT Solutions



BENEFITS

- Daily Online Monitoring
- Transparency in Milk Rates
- Users Friendly
- Real Time Notification

Payment Received

Milk Collection Completed



Milk Producers App

Milk Producers App is an online cloud based platform which enables easy and efficient milk collection reporting at various Societies/MPPs. This Application is used to view/monitor the various activities involved in the process of Milk Collection at Society/MPP level by the Milk Farmer

FEATURES

Alerts

Social Media

News

Payment

Passbook

Member Profile

Dashboard

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