

prompt<sup>®</sup>

# iSMART

milk analyzer



# How do we keep it pure?

Prompt provides innovative solutions for an efficient dairy procurement supply chain. From farm management and milk collection to quality analysis and preservation, we have different equipment and software to ensure that the purity of milk is retained at every step. Our unique offering, iSmart Ultrasonic Milk Analyzer,

measures and records milk Fat, SNF, added water, milk density and has inbuilt features like power-on-self-test, App assisted secured cloud calibration and ensures accuracy of readings. The system ensures transparency and optimum earnings to farmer and dairy.

## Our product in this pursuit – iSmart Ultrasonic Milk Analyzer

A PATENTED PRODUCT

### INDIA'S FIRST SMART AND INTELLIGENT INDIGENOUS MILK TESTING EQUIPMENT

Our Milk Analyzer provides accurate milk parameters reading and links it with the pay-out to farmer in real-time. In addition, all the data are stored online on cloud and can be accessed through Bluetooth enabled mobile application. This increases transparency and profitability arising out of improvement in the quality of milk collected.



Measures milk Fat, SNF, added water, and milk density



Secured cloud calibration



Single curve calibration



Analyzer available in Stainless Steel/ABS Body



Measuring time 40 seconds depending upon the model



Being a 100% indigenous product, we offer service support across India



Daily Cleaning Solution

### ULTRASONIC STIRRER

- Stirring removes air from fresh milk samples by vibrations created in the milk before testing
- Available in Powder Coated/Stainless Steel housing
- Vibrator- SS/Aluminium ball type
- SS/Aluminium ball type

## TECHNICAL SPECIFICATIONS:

Measuring Parameters	<ul style="list-style-type: none"> <li>• FAT from 1.5% to 12% with accuracy +/- 0.1%</li> <li>• SNF from 6% to 12% with accuracy +/- 0.15%</li> <li>• Added water to milk from 0% to 60% with accuracy +/-5%</li> <li>• Density: 1.0220 g/cm-1.0360g/m<sup>3</sup> with accuracy +/- 0.0005 g/cm<sup>3</sup></li> <li>• Measuring time: 40 seconds/sample</li> <li>• Resolution: ± 0.01% for FAT, ± 0.01% for SNF, ± 1% for added water +/- 0.0001 g/cm<sup>3</sup> for density</li> <li>• Repeatability: +/- 0.03% for Fat, +/- 0.05% for SNF, +/- 0.75% for added water ± 0.0002 g/cm<sup>3</sup> for density</li> </ul>
Measuring Time	40 seconds
Display	2 Line, 16 Character, Big LCD Display, 10mm Character Height
Operating Facilities	Cleaning, Single Curve Calibration, Error List, Suitable for Cow/Buffalo/Mixed Milk
Mobile App	Bluetooth enabled Mobile application
Operating Voltage	<ul style="list-style-type: none"> <li>• 230 V + 15-20%, AC, 50 Hz</li> <li>• 12V DC +/- 8%</li> </ul>
Storage	Data Storage on SD card and cloud
Interface	RS 232
Environmental Conditions	<ul style="list-style-type: none"> <li>• Ambient Air Temperature: -10°C to 50°C</li> <li>• Relative Humidity: 30% to 80%</li> <li>• Milk Temperature: -5°C to 35°C</li> </ul>
Power Consumption	Average 30 watt, peak 90 watt
Loose Accessories	<ul style="list-style-type: none"> <li>• RS 232 serial cable- 1 no.</li> <li>• AC power cable with plug top- 1 no.</li> <li>• Battery power cable- 1 no.</li> <li>• 200 ml bottle of daily cleaning solution- 1 no.</li> <li>• 200 ml bottle of Power cleaning solution- 1 no.</li> <li>• Measuring mug- 2 nos.</li> <li>• Operating manual (English)- 1 no.</li> <li>• Plunger- 1 no.</li> </ul>

## FEATURES

- Robust and easy to operate
- Fast and accurate result
- Low operating and maintenance cost
- Durable in all weather conditions
- Better repeatability and accuracy
- One touch analysis
- Equipment operates only when critical self-tests are passed leading to reduced downtime cost
- Detailed Equipment Parameter Analytics available through online data to provide predictive maintenance

## WHAT ARE ITS BENEFITS?

### Transparency & fair payments to farmers

Due to online central calibration, farmers can be assured that the machine displays accurate milk parameters and is free from any adjustments due to manual intervention. No differences in FAT/ SNF reading at the dairy and Milk Collection Centre leads to optimal pay-out to the farmer, increases transparency and ensures the desired quality of milk.

### Real time information on Cloud

All the historical data logs such as Fat, SNF, self-cleaning data, calibration data, etc. are maintained online on the cloud which can be accessed real-time. Various analytics can also be done using the data which provides actionable insights and helps in making informed business decisions.

### Preventive Maintenance

Milk Analyzer would start operations only after it passes through critical self-tests. This ensures regular cleaning of machines, reduced downtime cost, and accurate operation of the machine.

# prompt<sup>®</sup>

The pursuit of purity

Our ideas and innovations are a part of the pursuit of maintaining the sanctity of milk so that the world's most ancient health drink can be appreciated as it truly is – untouched and unadulterated.



Presence across  
28 states



Presence across  
350+ districts



Presence across  
68,000+ villages



900+  
team members



Legacy of more than  
3 decades



8 patented  
products



220+ serviceable  
locations



24x7 support  
via mobile app

## Optimise your dairy business with related products

### AMCS

Automatic Milk Collection System (AMCS) is a comprehensive solution which digitizes and tracks the real-time information of milk collection process being followed at the collection centers. The cloud connectivity makes it possible to access the data from any location and BI Analytics Reports enable informed business decision making.



### DPMCU

Data Processing Milk Collection Unit (DPMCU) has an integrated milk collection software that accepts data from Electronic Weighing Scale and Milk Analyzer. The DPU (with cloud connectivity) then processes the data and prints milk slips through in-built printer for farmers.



### MilkoScreen

Milkoscreen accurately measures Fat, SNF and protein, based on proven FT-Infrared Technology. It also detects various adulterants such as added water, urea, sucrose, maltodextrin and ammonium sulphate present in the milk.



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