



Smart AMCU is a comprehensive solution to automate the milk collection process and integrate with the vital operations carried out at the primary Dairy Cooperative Society (DCS). This includes Milk receipt, Milk sales to Unions, local sales, purchases, product sales to farmers and mandatory financial procedures such as maintenance of Account Ledgers, Balance Sheet, Profit & Loss A/c's, Audit etc.

SMART AMCU provides an easy interface between electronic weighing scale, FAT analyzer and CLR measuring instrument with the computer system. It is also integrated with Financial Accounting System and an Inventory module.

Differentiating factors:

A. Weighing scale:

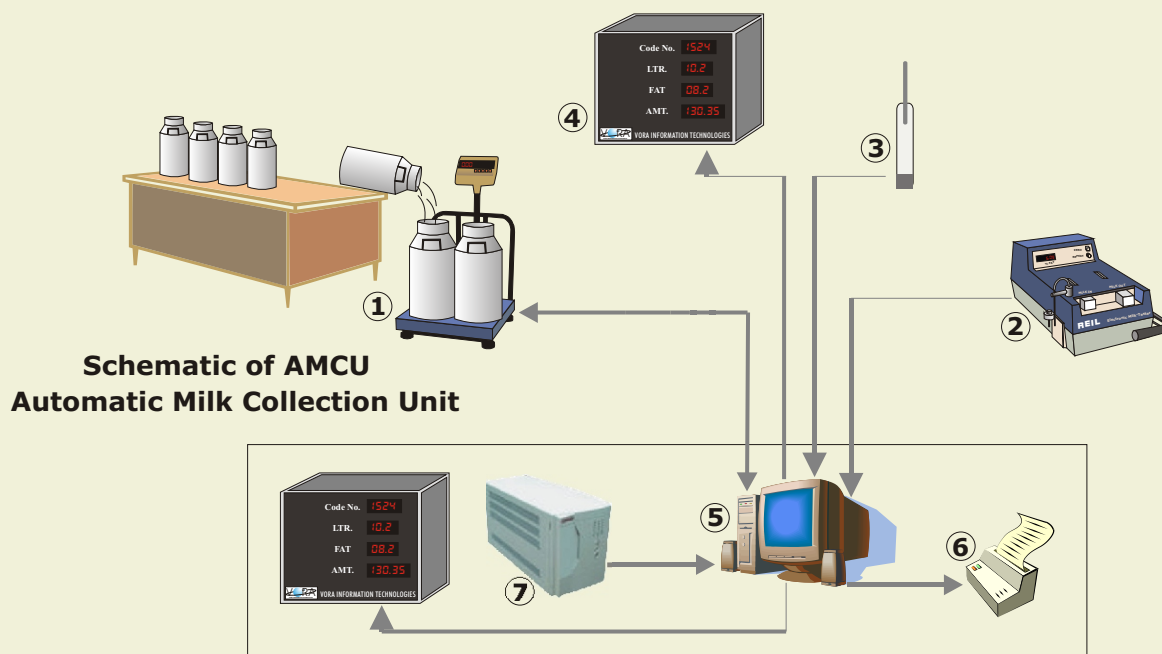
- ▶ All stainless steel construction which includes platform, display indicator box, stand and platform guard.
- ▶ Internal base frame with square pipe duly galvanized for maximum anti-corrosion protection.
- ▶ IP 65 load cell with additional protection against strong jet of water.
- ▶ Easy calibration with user specified milk density for liter measurement.

B. Display units:

- ▶ Bright 7 segment display unit for better readability protected by a Stainless steel cabinet.

C. UPS:

- ▶ Covers widest range of line voltage from 120-270V.
- ▶ Prolonged battery life because of efficient and proper charging.



Components of Smart AMCU:

- | | | |
|--|-------------------|----------------------------|
| 1 Weighing scale | 2 FAT Analyzer | 3 CLR Measuring Instrument |
| 4 Display units, both at the Farmer as well as the Operator side | 5 Computer System | 6 Printer |
| 7 UPS | | |

Salient Features:

- ▶ Regional Language Support.
- ▶ Accurate and reliable measurements - Wt, FAT, SNF.
- ▶ Visual Display & Audible Messages for various intimations and transactional details :
 - Society code, liter, FAT, Amount.
- ▶ Direct data capturing through RS232 interface.
- ▶ Online data transfer facility between the society and the union for an up to date transactional details / information.
- ▶ Event based reports - daily / periodic (user defined)
- ▶ Total transparency in operation.
- ▶ License compliant Software solution.
- ▶ 3 years extended warranty (optional).

Benefits of AMCU:

Farmer

- Transparency
- Accurate and timely payments.
- Time saving(reduction in waiting period)
- Prompt AI / AH services
- Proper intimation on cattle feed and product deliveries
- Faster delivery of products.
- Reduction in workload leading to higher efficiency and consistency of operations Direct impact of automation for DCS.

Dairy Co-operative Society

- Better member relationship based on trust building with quick and better quality of services.
- Accurate and up-to-date accounting system.
- Consistent check on milk quality to avoid any possible rejection at union.
- Process driven rather than person driven
- A progressive step towards higher profitability and prosperity of DCS.

Union

- Regular and timely availability of milk.
- Assured Quality of Milk.
- Better relations with Member Societies.
- Avoid duplication of work.
- Up to date On Line information on Milk Collection at societies.
- A progressive step towards establishment of communication network with member societies.

Smart AMCU is an all in one solution for the benefit of societies, unions and farmers. Automation is the need of the hour and the key to progress, profitability and prosperity.

Smart AMCU helps to ensure quality with accuracy, speed, transparency and automation at a modest value.



Smart CLR Measuring Instrument displays Corrected Lactometer reading. It forms important part of automation for the milk collection process carried out at primary Dairy Cooperative Society (DCS) in rural areas and at the Raw Milk Receiving Dock at the Union/Dairy with complete Computer connectivity.

The normal density of the milk ranges from 1.028 to 1.033 g/ml. You can use the lactometer reading together with the fat percentage to arrive at the Solids Non Fat (SNF) content of the milk.

If the results of the fat test are low and the density is low (e.g. 1.027), then water might have been added to the milk. When it is adulterated with other materials such as sugar and salt; the density of milk increases.

Salient features

- ▶ Stainless Steel construction for preserving milk quality
- ▶ Requires less than 50 ml of milk per sample
- ▶ Quick measurement with auto temperature correction and digital display
- ▶ High precision and accuracy.
- ▶ Auto Drain and re-sample alert for high /low values
- ▶ Ultrasonic cleaning cycle
- ▶ Computer Connectivity (Rs232)
- ▶ Radio Frequency connectivity for wireless data communication. (Optional)
- ▶ Ease of Operation both at DCS and Union/Dairy
- ▶ Battery Back up

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