Technical Specifications

Smart Data Processor Electronic Milk Tester is the heart of the unit, works on the principle of photometric measurement of light scattered by the fat globules present in the milk sample. The measuring procedure follows the conventional system of dilution, mixing, homogenisation and photometric measurement.

Smart Data Processor Electronic Milk Tester

Measuring range	: 0-13% fat
Speed	: 110-130 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
Smart Card Drive	: For uploading shiftwise milk collection data
Smart Card	: 3 nos. smart card for data transfer to SAMCU.

Electronic Weighing Scale

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

Capacity	: 50 Kg. / 200 Kg.
Resolution	: 10 Gms. / 20 Gms.
Load cell	: Stainless steel, bending beam, resistive strain gauge type, load impact 300% minimum
Power supply	: 230 VAC ± 10%, 1φ, 50 Hz
Platform size	: AISI SS 304, 1.5mm thick & size 400mmx400 mm (50 Kg.)/ 600mmx600 mm (200 Kg.) polished to 150 grit
Display	: 7 Segment GREEN LED digital display of 14.22mm height, Tare, Net or Gross weight indication, RS 232 port
Battery backup	: In-built battery backup during power failure

Dot Matrix Printer

24 Pin 80 Column Dot Matrix Printer

Digital Indicator

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

Uninterrupted Power Supply (Optional)

Conditioned supply	: Quasi sine wave with mimimum harmonics
Capacity	: 1.5 KVA (Minimum)
Type	: Line Interactive Type
Voltage at input	: 160 Volts to 280 Volts
Voltage at 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, No load protection against spikes

Conditioned supply	: Quasi sine wave with mimimum harmonics
Performance efficiency	: 85% & above
Operating environment	: Temp. 5° C to 50° C, 90% RH, Dusty Environment
Battery	: 12V, 75AH Industrial Tubular (with battery level indicator)
Backup time	: 3 hrs Minimum in fully charged condition (in one shift of 8 hrs.)

Ordering Information

Milk Type	Rate Chart Type (Please √)	
Buffalo	Fat Vs Amount ☐	Fat Vs CLR Vs Amount ☐
Cow	Fat Vs Amount ☐	Fat Vs CLR Vs Amount ☐

Regional Offices

Gujarat	Karnataka	Madhya Pradesh	Punjab	West Bengal	Uttar Pradesh	Rajasthan
Anand	Bangalore	Bhopal	Chandigarh	Kolkata	Lucknow	Jaipur
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ISO 9001 REGISTERED

DOC. No.: REIL 02-14-01

Smart DATA PROCESSOR
MILK COLLECTION UNIT

Application

The Smart Data Processor Milk Collection Unit (SDP-MCU) is an integrated unit, comprising of the following;

- Smart Data Processor Electronic Milk Tester (SDP-EMT) with Smart Card Drive
- Electronic Weighing Scale
- Digital Indicator
- Dot Matrix Printer

The member number and CLR reading can be entered through keypad.

It measures the weight, fat content and gives the printout of the transaction of the milk brought in by each producer.

The member number, weight, fat and amount are displayed on SDP-EMT and remote display simultaneously.

A shift end summary can be taken into smart card for further processing of data at Smart Automatic Milk Collection Unit (SAMCU). The Data at SAMCU can be processed for generating various reports.

Features

- Milk testing, weighing, data processing and automation
- Complete rate chart entry
- Auto zero facility
- Instant measurement and display of milk fat
- Instant calculation of amount payable
- Facilitates independent working of electronic milk tester and electronic weighing scale
- Operation with 4x4 matrix hexadecimal keypad
- Transmission of data (Member Code, Fat, CLR, Weight & Amount) on smart card
- 7 Segment Green LED display of 25mm height
- Centralised testing and payment

Reports

- Slip print out for member transactions
- Shift End Summary
- Payment Register
- Cumulative summary

REIL *Shaping Rural India*
Through Electronics, Energy, Information Technology & Communication