LACTOSCAN
ULTRASONIC MILKANALYZER

ULTRASONIC MILK ANALYSER WITH WINDOWS OS AND DATABASE APPLICATION

Lactoscan Milk Collecting Center based on Windows OS (MCCW)

High-end ultrasonic technology for analyzing any kind of milk

Inbuilt Printer

In-flow integrated pH meter with probe (option)

Touch-screen

Wireless keyboard and mouse (USB)

Platform scales (serial interface)

HDMI Display 21"

Bar-code reader (USB)

External Standard Printer

- **Internet Cloud Services**
- **e-mail &SMS support**
- **Multi-language support**
- **Touch-screen display**
- **Wireless keypad and mouse**

KEY FEATURES:

- **User-friendly: simple in operation, maintenance, calibration and installation**
- **Portable and compact design**
- **Very small quantity of milk required**
- **Low power consumption**
- **No use of hazardous chemicals**
- **One year full waranty**

SPECIFICATIONS Lactoscan MCCW:

Parameter	Measuring range	Accuracy
Fat	from 0.01 % to 45%	± 0.06%
SNF	from 3% to 40%	± 0.15 %
Density	from 1000 to 1160 kg/m^3	± 0.3 kg/m^3
Protein	from 2% to 15%	± 0.15%
Lactose	from 0.01 % to 20%	± 0.20%
Added Water content	from 0 % to 70 %	± 3.0%
Temperature of milk	from 5°C to 40°C	± 1°C
Freezing point	from – 0,400 to – 0,700°C	± 0.005 °C
Salts	from 0,4 to 4%	± 0.05%
pH	from 0 to 14	± 0.05%
Conductivity	from 2 to 14 mS/cm	± 0.05 (mS/cm)
Kg	from 0 to 150 kg	± 0.025 kg
Total solids	from 0 to 50 %	± 0.17%

(option) **50 sec., 30 sec., 20 sec. measurement**

MEASURING PARAMETERS:

Fat
Solids-non-fat (SNF)
Total Solids
Density
Protein
Lactose
Milk sample temperature
Added water
Salts
Freezing point
pH
Conductivity
Kg
Ion meter

Milk analyzer Lactoscan makes quick analysis of milk and liquid dairy products:

Cow milk *(25%)* Whey Concentrated milk *(up to 1160kg/m^3)*
Sheep milk Cream *(up to 45%)* Recovered milk
Buffalo milk Skimmed milk *(0,01% FAT)* Etc.

*And can be calibrated by the customer with specific samples of:
Yoghurt, Flavoured milk, Ice-cream mixtures etc.*

This project is co-funded by the European Union

ENVIRONMENTAL CONDITIONS:

Ambient air temperature
10°C -40°C (option 43 °C)

Milk temperature 1°C -40°C

Relative humidity 30% - 80%

ELECTRICAL PARAMETERS:

Switching Adapter

Input:100 - 240 V ~1.6 A max.
50-60 Hz

Output: +12 V 4.17A min.

Output power: 50 - 65 W

MECHANICAL PARAMETERS:

Dimensions: (W x L x H)
390 x 300 x 260 mm
Weight: 5.5 kg
Plastic cover box

Functions:
- Input information
- Communication - SMS and e-mail
- Active Formulae
- System log

Tables and formulae - deliverers and price
- Reports:
  shift, daily, monthly,
  deliverer daily report,
  deliverer monthly report

- Database services:
  - Archive DBRes
  - Restore DBRes
  - Init DBRes
  - Archive DBDel
  - Restore DBDel
  - Archive all Databases
  - Restore All Databases
  - DB Server

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УКРАЇНА

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pH measuring system (degree of acidity) (option)
In-flow pH measuring system (degree of acidity)
All parameters - measured in a single sample

pH probe Input

12V Output
12V Input
Power switch

USB ports (printer,
bar-code reader,
keyboard and mouse,
remote display
and weight scales)

Integrated pH meter

RS232 interface port

HDMI

LactoScan Analyser - Database (LSAn-DB)
LSAn-DB collecting information from Lactoscan® compatible measurement files and creating reports consistent with predefined formulae.
The application saves data collected to a MySQL database.
Local and Cloud Based DB

Internet Remote
Firmware Update
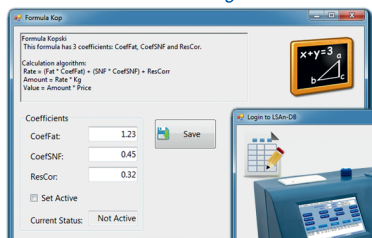(Download Center)

Cloud Database Application.
Total solution for milk collecting process.
Windows tablet, wireless, cloud services based system:
- Easy to use, integrated, internet based;
- Automated farmer identification (bar-code card);
- Real-time SMS and e-mail alerts;
- Remote back-up support and maintenance, updates;
- Payment schemes calculations;
- Real-time online access to milk data;

Advantages:
-remote modification of the rate-charts
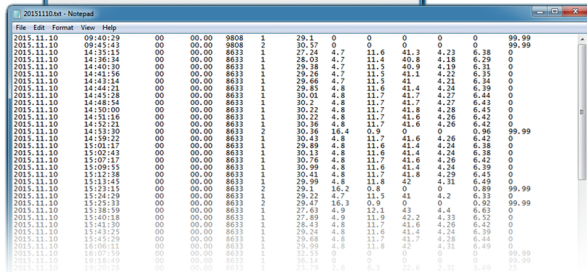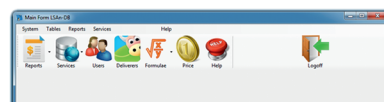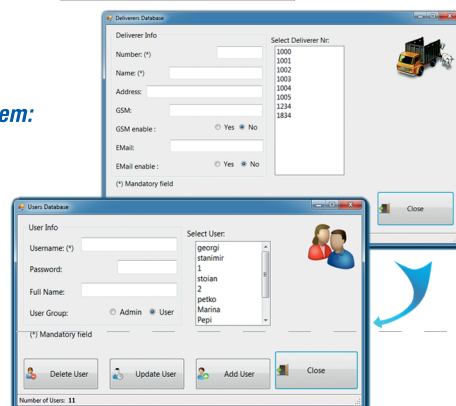-remote support and maintenance
-remote alert for changes in calibration

WiFi

Report for: 2015-04-09 | Type of report: Shift / Large | Shift: Morning

Calibration type: 2						
Time	Deliverer	Litres	Fat	SNF	Rate	Amount	Value
11:57:48	1001	1.34	3.97	22.69	20.12	26.96	347.26
09:57:03	1114	12.53	4.33	25.24	4.54	56.89	732.69
09:55:21	1234	2.5	4.11	23.92	5.56	13.90	179.03
09:58:23	1914	32.57	4.03	24.21	5.56	181.09	2332.43
09:59:30	2924	34.50	11.66	22.29	4.54	156.63	2017.39

Average Fat: 7.23   Average SNF: 23.54   Average Rate: 0.48
Total Amount: 435.47   Total Quantity: 83.44   Total Value: 5608.80

Calibration type: 3						
Time	Deliverer	Litres	Fat	SNF	Rate	Amount	Value
11:58:12	1002	3.45	3.87	23.69	4.54	15.66	201.74
10:25:39	1234	10.54	4.22	24.92	5.56	58.60	754.80
10:45:32	3200	17.57	4.43	22.91	11.24	197.49	2543.63

Milkotronic Diary United - Nova Zagora
Report generated: 2015-11-29 15:33:05

Milk conductivity measuring system (option)
Milk conductivity changes depending on concentration of ions in the milk.
Milk conductivity can be used for:
- test of udder health (detection of subclinical mastitis);
- control of water evaporation grade in condense milk production;
- determination of dry milk solubility rate.