

**ULTRASONIC MILK ANALYSER BASED ON MS WINDOWS
AND DATABASE APPLICATION**

Lactoscan Milk Collecting Center based on MS Windows (MCCW)

High-end ultrasonic
technology for analyzing
any kind of milk



- 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 warranty

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

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.

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



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)

230 x 350 x 350 mm

Weight: 8 kg

Stainless steel box

Functions:

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

Tables and formulae -
delivers 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

buy online on

www.lactoscan.com



ULTRASONIC MILK ANALYSER WITH MS WINDOWS AND DATABASE APPLICATION

HDMI (option)

pH probe Input

12V Output

12V Input

Power switch

Option: automatic
cleaning

pH measuring system
(degree of acidity) (option)

In-flow pH measuring system
(degree of acidity)

All parameters - measured in a
single sample

Integrated pH meter



USB ports

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

RS232 interface port

(connection for remote display
and weight scales)

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

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



Milkotronic Dairy Limited - Nova Zagora

Report for: 2015-04-06 | Type of report: SRR / Large | SRR: Morning

Calculation type: 2									
Total	Delivered	Subst.	Fat	SRR	Rate	Amount	Value		
1137.48	1360	1.2%	3.87	22.08	80.72	28.86	267.49		
38.12.09	1119	13.0%	8.39	24.34	8.19	86.88	732.89		
38.55.01	1209	8.8%	8.11	23.93	5.56	13.95	176.00		
38.55.03	1916	32.0%	8.03	24.21	5.56	181.08	2032.43		
38.59.01	8924	34.5%	17.68	22.29	4.54	193.63	2017.39		
Average Fat: 7.23									
Average SRR: 15.54									
Average Rate: 5.48									
Total Amount: 435.47									
Total Quantity: 85.44									
Total Value: 5508.80									

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.

MILKOTRONIC LTD

Bulgaria, 6000 Stara Zagora
167, Tsar Simeon Veliki, A, 25
Tel: + 359 457 670 82,
Fax: + 359 457 670 83

e-mail: salesdpt@lactoscan.com
Eng, Spa, Port: +359 886 841 389
e-mail: sales2@lactoscan.com
Eng, Rus: +359 886 841 395
e-mail: mainservice@lactoscan.com
Eng, Rus: +359 886 811 017

e-mail: m.mihneva@lactoscan.com
Eng: + 359 885 597 232
e-mail: milkanalyzers@lactoscan.com
Eng, Rus: +359 896 753 803

distributors: