

**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 <sup>3</sup>	± 0.3 kg/m <sup>3</sup>
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<sup>3</sup>)



**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

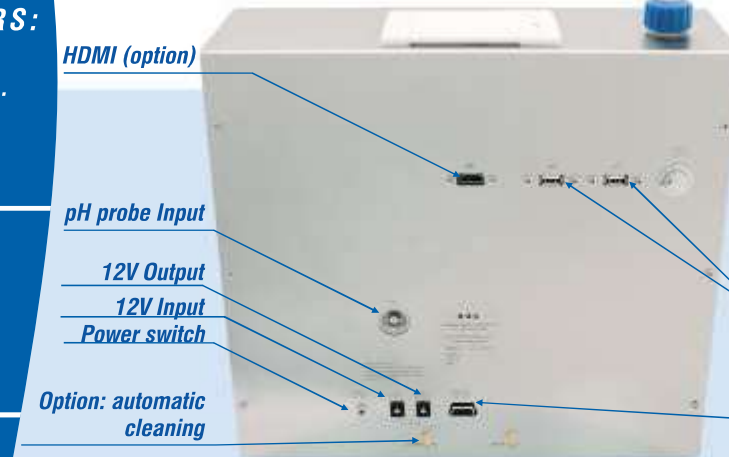
**Database services:**

- 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



Milkotronics Dairy United - New Zagora

Report for: 2015-04-08 | Type of report: SSK/Large | SSK: Morning

Calculated type 2									
Time	Deliverer	Weight	Temp	Conduct	pH	Conduct	Temp	Conduct	Temp
11:47:48	1500	1.38	3.97	22.58	69.12	26.86	241.26		
11:48:00	1113	13.04	3.70	22.34	6.35	36.84	171.81		
11:48:27	1234	7.72	3.71	22.94	6.35	35.95	170.69		
11:48:43	1814	22.27	3.68	23.21	5.46	33.05	235.43		
11:49:03	1764	36.35	3.68	22.49	5.46	33.05	235.43		
Average For: 7.23		Average SSK: 23.54		Average Flow: 0.49					
Total Amount: 420.47		Total Quantity: 83.44		Total Value: 3208.87					
Calculated type 3									
Time	Deliverer	Weight	Temp	Conduct	pH	Conduct	Temp	Conduct	Temp
11:26:17	1354	3.43	3.67	23.09	6.35	35.95	171.81		
11:25:58	1224	12.02	3.43	23.21	5.46	33.05	171.81		
11:25:52	1302	11.07	3.43	22.91	11.25	113.42	1040.22		



**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.