

**ULTRASONIC MILK ANALYSER**  
**DIRECT MEASUREMENT OF COLD MILK SAMPLES,**  
**starting at 5°C**  
**No need of periodical calibration**

**Lactoscan SP**  
Standard Plastic

**Lactoscan SPA**  
Standard Plastic Automat  
60 sec, 30 sec seconds measurement



**Multilingual display**

Results  
F=03.02 S=07.93  
D=28.55 P=02.90  
L=04.35 U=04.23

結果  
脂03.32 固07.69  
脂密27.38 蛋02.81  
糖04.21 水07.30

Жиp=03.26 1  
COM=07.68  
ПлT=27.38  
Бел=02.81

**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**
- **Adjustments of the measurement accuracy can be done by the RS 232 interface**
- **ESC POS Printer Support**
- **Two samples self-calibration**

**SPECIFICATIONS Lactoscan SP:**

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 (option)	from 0 to 14	± 0.05%
conductivity (option)	from 2 to 14 mS/cm	± 0.05 (mS/cm)

**Serial printer**



**MEASURING PARAMETERS:**

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

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

Cow milk (25%)    Whey    Concentrated milk (up to 1160kg/m<sup>3</sup>)  
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:**  
Yoghourt, 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:**

AC Power Supply voltage  
220V/110V

DC Power Supply voltage 12V

Power Consumption 30W max

**MECHANICAL PARAMETERS:**

Dimensions (W x D x H)  
175x175x150 mm

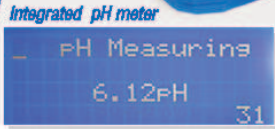
Weight < 1,5 kg

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60 sec, 30 sec  
seconds measurement

Both models work with high-end peristaltic pumps:  
- one pump for SP;  
- two pumps for SPA  
(one for the sample, one for the cleaning)



Embedded function real date and time - registers the exact time for delivery of milk in the milk collecting center

Time:	08:15:31
Date:	05-04-2007
LACTOSCAN SP	
Serial Number:	8615
Calibr:	1 Cov
Results:	
Fat:	01.37%
SNF:	06.13%
Density:	22.23
Lactose:	03.27%
Solids:	20.48%
Protein:	02.35%
Added Water:	30.76%
Temp. Sample:	19.0°C
Freez. Point:	-0.360°C
pH:	05.85
Conductivity:	11.931

Visualisation out of range measurement

Conductivity - built-in conductivity sensor gives high performance freezing point analysis - avoid poor quality milk due to added water; detects mastitis and falsifications with added salt

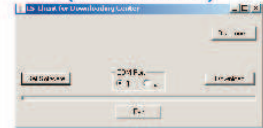


Measure	Code	Post Exp	Exp Suppl	Unit	Unit
0001	0001	0001	0001	0001	0001
0002	0002	0002	0002	0002	0002
0003	0003	0003	0003	0003	0003
0004	0004	0004	0004	0004	0004
0005	0005	0005	0005	0005	0005
0006	0006	0006	0006	0006	0006
0007	0007	0007	0007	0007	0007
0008	0008	0008	0008	0008	0008
0009	0009	0009	0009	0009	0009
0010	0010	0010	0010	0010	0010
0011	0011	0011	0011	0011	0011
0012	0012	0012	0012	0012	0012
0013	0013	0013	0013	0013	0013
0014	0014	0014	0014	0014	0014
0015	0015	0015	0015	0015	0015
0016	0016	0016	0016	0016	0016
0017	0017	0017	0017	0017	0017
0018	0018	0018	0018	0018	0018
0019	0019	0019	0019	0019	0019
0020	0020	0020	0020	0020	0020

**MILK DATA Program:**  
milk collection accounting and management software.

1. Power switch
2. 12 V output
3. 12 V input
4. Serial Interface (RS232/ printer)
5. USB (option)
6. Automatic cleaning (option)

**Internet Remote Firmware Update**  
(Download center)



High-quality, durable plastic - ABS with polycarbonate.  
Multi-color plastic.



USB Flash  
File Open App  
Write 8gto  
Close File



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