



Bluetooth  
Addon Inside

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# LAB ECO

NEW  
ARRIVAL



**HIGH QUALITY  
CUTTING EDGE ULTRASONIC MILK ANALYSER  
AND THE LOWEST PRICE IN THE WORLD**

HIGH QUALITY  
HIGH TECH  
CHEAPEST



Multilingual display

Waterproof keyboard

Front panel with  
possibility for  
individual design

Sample holder

Our products support the following languages:

>English  
Español

>English  
French

>English  
Portugues

>English  
Russian

>Ingilizce  
Turk

## SPECIFICATIONS MASTER ECO:

Parameter	Measuring range	Accuracy
Fat	from 0.01% to 25%	± 0.1%
SNF	from 3% to 15%	± 0.15%
Density	from 1000 to 1160 kg/m <sup>3</sup>	± 0.3 kg/m <sup>3</sup>
Protein	from 2% to 7%	± 0.15%
Lactose	from 0.01% to 6%	± 0.2%
Added Water content	from 0% to 70%	± 3%
Temperature of milk	from 5°C to 42°C	± 1°C
Freezing point	from - 0.4 to - 0.7°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	± 0.1 (mS/cm)

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

Cow milk (25%)  
Sheep milk  
Buffalo milk

Whey  
Skimmed milk (0.01% FAT)

Concentrated milk (up to 1160kg/m<sup>3</sup>)  
Recovered milk  
Etc.

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

The measurement accuracy  
not dependant on milk's acidity  
High-end ultrasonic technology  
for analyzing any kind of milk

Easily readable results

Self calibration  
without computer

## KEY FEATURES:

User-friendly:  
simple in operation,  
maintenance, calibration  
and installation

Portable and  
compact design

Very small quantity  
of milk required (20ml)

Low power consumption

No acid or other  
chemicals are used

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

Bluetooth, RS232 and  
USB technology

## 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)  
pH (option)





## ENVIROMENTAL CONDITIONS:

Ambient air temperature  
10°C - 40°C

Milk temperature  
5°C - 42°C

Relative humidity  
0%-80%

## ELECTRICAL PARAMETERS:

AC Power Supply voltage  
95-250V

DC Power Supply  
voltage 12V

Power Consumption  
30W max.

## MECHANICAL PARAMETERS:

Dimensions :  
139x47x181mm

Weight: 0.9kg



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

>Sheep milk  
UHT milk  
Buffalo milk  
11:27 16/09/17

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

Visualisation out of range measurement

Milk Analyzer MASTER	
SN: 16491	Mode: 1
Temp: 19.8 C	
Fat: 7.8%	
SNF: 8.29%	
Density: 23.5	
Protein: 3.0%	
Lactose: 4.3%	
Salts: 0.5%	
Added water: 0.0%	
Freezing point: -0.525 C	
pH: 8.4	
Conductivity: 4.8	
13:24	21/10/17

MILK DATA Program:

milk collection accounting and management software.

Permanent laser engraving, possibility for custom logos or text inscription.

Highly effective, long life peristaltic pump

Serial interface (RS232/printer)

USB/RS232 interface (option)

pH (option)

Power switch

12V input

USB Flash drive (option)

Integrated Bluetooth communication system

With Bluetooth  
One more possibility for data transfer to PC  
Transmit Power - max. 18 dBm

Receiving Sensitivity  
90 dBm  
Inbuild antenna  
Working distance  
(at open field) Nom. 100m



Bluetooth

HI-SPEED  
CERTIFIED  
USB

