

# EKOMILK<sup>®</sup> AMP

## Complete system for accurate mastitis and milk quality control

Hybrid Milk Analyzer

### EKOMILK HORIZON UNLIMITED (EHU)



**EKOMILK<sup>®</sup>**  
*Horizon*

Somatic Cell Count (SCC) and Milk Parameters Measurement

- Automated and reliable;
- Fast and cost-effective;
- High accuracy for SCC threshold of 200K cells/ml;
- Integrated Wi-Fi module for remote monitoring



### ANIMAL MONITORING PLATFORM

**AMP**

Cloud-based bulk tank, dairy herd & cow health management and instrument maintenance  
[www.animalmonitoring.com](http://www.animalmonitoring.com)



### SAMPLE FEEDER

Peripheral device for automatic milk sampling and feeding

- Flexible process automation;
- Autonomous processing of 49 milk samples;
- Processing time around 1 hour;
- Auto cleaning function

approx.

**€0.03**  
per test



Certificate delivered by the European Commission, as the institution managing Horizon 2020, the EU Framework Programme for Research and Innovation 2014-2020

The project proposal 756888, MastCloud

### System Applications:

- ◆ dairy farms with a conventional milking parlor ◆
- ◆ dairy farms with robotic milking machines ◆
- ◆ large laboratories testing over 100 000 samples / year ◆
- ◆ small labs ◆ vet cabinets ◆ milk processors ◆
- ◆ mobile labs for milk collection ◆

# EKOMILK<sup>®</sup> AMP

## SOMATIC CELL COUNT & MILK PARAMETERS

Milk parameters	Cow / Tank	Measuring Range and Accuracy
Somatic Cell Count	Cow / Tank	80 000 ÷ 15 000 000 cells/ml ± 8%
Fat	Cow / Tank	0,5% ÷ 12% ± 0,04%
Protein	Cow / Tank	1,0% ÷ 9,0% ± 0,14%
Solids not fat (SNF)	Cow / Tank	6% ÷ 12% ± 0,2%
Temperature	Cow / Tank	0°C ÷ 50°C ± 0,1%
Conductivity	Cow / Tank	1,0 mS/cm ÷ 10 mS/cm ± 0,2 mS/cm
Density	Tank only	1,0200 ÷ 1,0400 g/cm <sup>3</sup> ± 0,0005 g/cm <sup>3</sup>
Freezing point	Tank only	-1,000°C ÷ 0,000°C ± 0,015°C
Added water	Tank only	0,0% ÷ 60% ± 5%
Lactose	Cow / Tank	0,5% ÷ 7% ± 0,2%
Acidosis & Ketosis	Cow / Tank	Ultrasound and AI based detection

- ◆ The accuracy of SCC, Protein, Fat and SNF are achieved after AMP calibration finetuning and valid for ICAR-compliant milk samplers;
- ◆ Lactose, Acidosis & Ketosis indicators are available only via AMP on demand;
- ◆ All specifications are preliminary and can be changed without prior notice

### Animal Monitoring Platform - Result Transfer, Workflow Integration and Measurement Supervision

#### AMP Standard package:

- ◆ Admin User Account with up to 1000 cows per farm;
- ◆ Automatic Data Transfer via integrated solid Wifi and USB stick workflow support;
- ◆ Powerful online calibration engine which allows to obtain unparalleled accuracy over an extended range of milk parameters;
- ◆ Automatic dashboards on bulk tank, on individual cow and on herd level;
- ◆ Real-time raw results viewing; mastitis visualization and monitoring;
- ◆ Efficient sample identification processes;
- ◆ Instrument maintenance program;
- ◆ Comprehensive notification platform via SMS, email and apps - receive measurement results and instrument warnings on any device anywhere

#### Optional:

- ◆ Up to 20 000 cows per farm and unlimited farms;
- ◆ Customized calibration services incl. automatic seasonal calibration update;
- ◆ Extra animal health indicators - lactose, acidosis and ketosis.
- ◆ Custom branding admin interface & 3rd party modules & APIs

**1-year standard AMP admin account is included with every system**

## SYSTEM CONFIGURATIONS



### EKOMILK<sup>®</sup> AMP

Mini-lab for fully-automated, on-farm, fast and reliable SCC and milk parameter analysis at €0.03/test in around a minute per measurement.

#### EKOMILK<sup>®</sup> Horizon

#### ESSENTIAL (EHE) +AMP

Automated milk analyzer for fast and effective control of SCC in dairy farms and processing plants

#### EKOMILK<sup>®</sup> Horizon

#### UNLIMITED (EHU) +AMP

Automated hybrid milk analyzer for SCC and milk parameters measurement

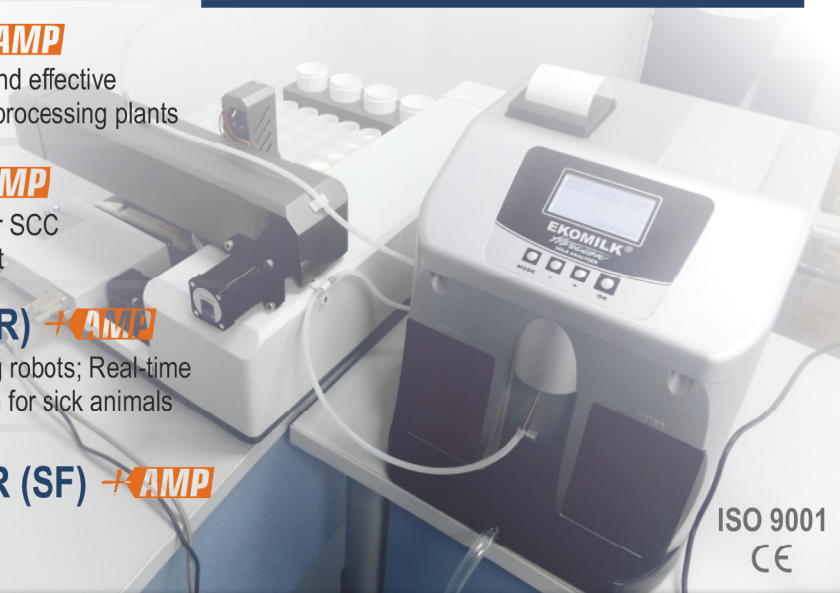
#### EKOMILK<sup>®</sup> Horizon

#### ROBOT VERSION (EHR) +AMP

Direct simple connection to milking robots; Real-time analysis allowing immediate action for sick animals

#### EKOMILK<sup>®</sup> AMPI SAMPLE FEEDER (SF) +AMP

Peripheral device for automatic milk sampling and feeding to the analyzer for fast milk parameters' analysis



ISO 9001  
CE

**Buy online at [www.ekomilkhorizon.com](http://www.ekomilkhorizon.com)**



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