



MilkoScan™ Minor
Profitable dairy production in your hands



FOSS for profitable dairy production

FOSS MilkoScan™ analysers are proven as an effective way to improve profit and product quality. Now, the power of MilkoScan is available to smaller producers in an affordable and easy-to-use package – the MilkoScan Minor.

Providing immediate pay offs, the MilkoScan Minor will help you:

- Pay the right price for deliveries based on on-the-spot analysis
- Standardise content of milk constituents and streamline production
- Do rapid checks and optimise dairy processing
- Ensure quality by performing checks on finished products leaving the dairy

MilkoScan™ Minor is developed to meet various needs in today's milk industry. It can be used in smaller dairy plants for quality assurance and control of important economic parameters as fat and protein where fast and accurate results enable you to make quick adjustment in the production for optimal production economy.

MilkoScan Minor can also be used for quality-based payment schemes. The fast and accurate results enable you to offer immediate and fair payment to milk producers.

For several decades FOSS has specialised in developing and producing solutions for milk analysis.

Our history covers solutions from MilkoTesters based on light scattering principle to MilkoScan™ applying well-known infrared spectrophotometry.

Today there are more than 7000 MilkoScans in operation at dairy plants and milk testing laboratories worldwide.

Affordable quality

Testing with the MilkoScan Minor is highly cost effective. You can measure up to six key quality parameters from a single sample. And you can test and test again as much as you like at no extra cost.

This can lead to an immediate and dramatic reduction in costs by replacing much of your traditional laboratory testing or less accurate testing. At the same time, the amount of analysis information will allow you to fine tune your production for more profit.



Improve your production for more profit

Example: MilkoScan™ Minor substitutes a less accurate analytical method

Figures:	
Production per day:	100,000 kg
Production days per year:	300
Price per kg fat	3.5 EURO
Price per kg skim milk:	0.15 EURO
Parameter:	Fat
Production limit:	3.50 %
Today's target (present method):	3.68 %
New target (obtained with MilkoScan Minor)*:	3.61 %
Change:	0.07 %
Annual profit improvement:	
Savings of reduced fat: (3.5 * 0.07/100 * 100,000 * 300)	73,500 EURO
Cost of extra skim milk**: (0.15 * 0.07/100 * 100,000 * 300)	3,500 EURO
Net profit total:	70,000 EURO

* The difference between the production limit and the new target is 2 standard deviations, a common level to use in quality control strategies.

** When using the gained extra fat for milk production, the value of skim milk used for this extra production is subtracted.

MilkoScan™ Minor

Designed for the way you work, MilkoScan Minor:

- Provides a simple, rapid and accurate analysis of key control parameters – all from one sample and in one operation.
- Is safe and easy to use (no hazardous chemicals) with a simple software and requires no operator training.
- Is easy to install for rapid start-up
- Is designed for various applications: milk payment, milk standardisation and quality control
- Offers trouble-free maintenance with automatic clean and zero-setting and unrivalled service and support
- Comes pre-calibrated for: raw milk (cow, buffalo, sheep and goat milk), processed milk and cream



Trustworthy results

Consistent quality supported by traceable analysis results is becoming essential in today's global and highly competitive dairy industry.

Proven accuracy based on renowned FOSS technology MilkoScan™ Minor is based on the well-known mid-infrared measuring principle.

The accuracy of results is competitive with reference methods, and MilkoScan Minor provides the results in 90 seconds. In addition, the performance of the MilkoScan Minor is in compliance with IDF standard 141C and AOAC method 972, 16. Optionally, the results can be stored on a PC for traceability.

Guaranteed accuracy

MilkoScan Minor has a guaranteed accuracy of 1.5 % CV on compositional parameters: Fat, Protein, Lactose, Total Solids and Solids-non-Fat.

MilkoScan Minor is available in two versions: MilkoScan Minor 3 (with 3 selectable parameters) and MilkoScan Minor 6 (version with 6 parameters)

Rapid analysis for valuable knowledge

Results for up to 6 parameters are delivered within 90 seconds. This gives you the on-the-spot information you need to pay the right price for deliveries, to control your production more accurately and to check the end product quality.

No chemicals are involved and the instrument is simple-to-use by anyone. Results are displayed on the screen.

MilkoScan Minor is supplied precalibrated and ready to use.



What can you measure?

Parameter	Milk	Cream
Fat	Yes	Yes
Protein	Yes	Yes
Lactose	Yes	Yes
Total Solids	Yes	Yes
Solids-non-Fat	Yes	Yes
Freezing Point Depression	Yes	

Measure 3 or 6 parameters at once, depending on your choice of MilkoScan Minor version.

Just how easy is it?

With the user-friendly MilkoScan Minor, everyone can undertake the operation. Just select product type and press the start button.

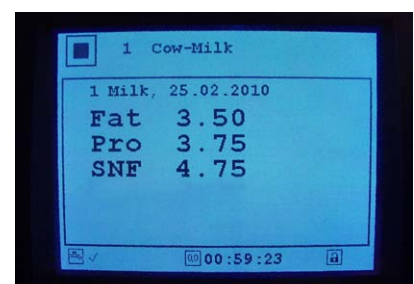
Easy calibration adjustment, graphical presentation and data storage is feasible using external PC. Optionally, a ticket printer can be connected directly to the MilkoScan Minor.



1. Load sample



2. Press start



3. Await result

FOSS your global partner in profitable dairying

For decades FOSS has helped dairies and milk testing laboratories to keep pace with their analysis demands. FOSS is unique in offering a range of dedicated solutions based on both indirect and reference methods. FOSS solutions provide analysis and control throughout the production process, from raw material to finished product and from routine analysis to at-line and in-line process control.

The MilkoScan Minor analyser extends the benefits of reliable analysis to smaller dairy producers. Providing rapid routine testing for key quality parameters, the instrument provides affordable analysis for virtually any dairy producer.

Visit www.foss.dk for more information about how FOSS dedicated analytical solutions can help you to produce dairy products effectively and with optimal profit.



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