MilkoScan™ Minor

Simple analysis of milk composition with MilkoScan™ Minor

Analyser features

- Pre-calibrated for milk and cream
- Automatic cleaning and zero-setting
- Unique FOSS Standard sample
- No hazardous chemicals
- Easy and cost-effective
- Analysis of cold samples

PC software features

- Automatic data collection
- Calibration adjustment
- Import/export of results
- Print-out via PC

Applications

- Cow's milk
- Skim milk
- Buffalo milk
- Goat's milk
- Sheep milk
- Cream

Parameters

- Fat
- Protein
- Lactose
- Total Solids
- Solids-non-Fat
- Freezing Point Depression*

Dedicated Analytical Solutions

FOSS

The simple solution

Today, chemical methods such as Gerber, Babcock, Kjeldahl and other traditional methods are no longer the only practical low-cost solution for e.g. Fat and Protein testing needs.

The MilkoScan™ Minor is a very attractive alternative because of its lower cost and less time used per sample. It is easy to use, rapid and has a fine performance.

The results are presented to you in approximately 90 seconds and enable you to standardise milk or perform milk payment analysis on Fat and other parameters.

With MilkoScan Minor you get a simple analysis of a whole range of parameters - all from one sample in only one operation.

Safe and easy to use - requires no specific operator skills

MilkoScan Minor is simple and user friendly - all the way - from installation to operation, calibration and maintenance. This makes it easy for non-skilled users to operate the instrument.

Analysis of your milk and cream can take place instantly. There is no need for special sample treatment and no use of hazardous chemicals, making MilkoScan Minor very safe and inexpensive to use. You just have to place the sample in the instrument and press Start.

MilkoScan Minor has an easy legible display with few keys. You get all data in a single display, user-defined programs with easy navigation and logical screens.

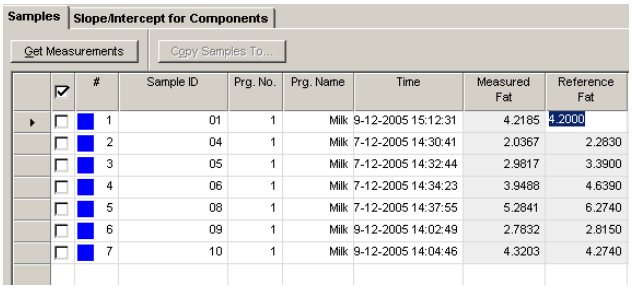
FOSS MilkoScan™ Minor PC software

Save time

With FOSS MilkoScan Minor PC software, many of the time-consuming tasks related to milk analysis can be carried out by means of an external PC. The simplified procedures for data collection, calibration adjustment and data storage provides for greater efficiency and productivity in your daily work.

Data collection

All results can automatically be collected, displayed and stored for calculation and adjustment of the basic calibrations. All results can be saved, printed and exported to other software programs. This ensures greater data security and reduces manual data entry.



#	Sample ID	Prg. No.	Prg. Name	Time	Measured Fat	Reference Fat
1	01	1	Milk	9-12-2005 15:12:31	4.2185	4.2000
2	04	1	Milk	7-12-2005 14:30:41	2.0367	2.2830
3	05	1	Milk	7-12-2005 14:32:44	2.9817	3.3900
4	06	1	Milk	7-12-2005 14:34:23	3.9488	4.6390
5	08	1	Milk	7-12-2005 14:37:55	5.2841	6.2740
6	09	1	Milk	9-12-2005 14:02:49	2.7832	2.8150
7	10	1	Milk	9-12-2005 14:04:46	4.3203	4.2740

Sample set concept

It is possible to prepare a sample set on the PC before collecting results and prepare a manual sample set for later data entry if no instrument is connected.

Sample ID

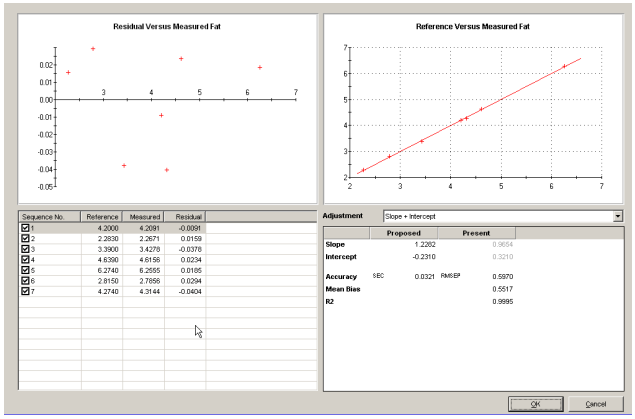
Sample ID can be entered before or after data collection.

Product program names

Customized product program names can be typed in.

Calibration adjustment

The password-protected adjustment section provides editing of reference data, calculation of the basic calibration using Slope & Intercept and statistics plots helping to evaluate the adjustment of the calibration.



Export and import of data

- The results can be exported for use in other software programs.
- Measured results can be imported and used in various sample sets.
- Results can be exported and printed on any printer via the PC.
- Results can be exported to a data network (LAN connectivity) through an optional feature in MilkoScan Minor

Emulator

Emulator software is included in order to provide training and demonstrations and for fast and easy learning of the software.

Compatibility

The MilkoScan Minor PC software is approved to run under Windows 7 and Windows XP with service pack 2 or 3.

Local language option

German as well as English language is integrated in the PC software.

Technical specifications

MilkoScan™ Minor 3

3 selectable parameters.
Accuracy: F, P, L, TS, SnF < 1.5% CV in cow's milk samples.

MilkoScan™ Minor 6

6 parameters.
Accuracy: F, P, L, TS, SnF < 1.5% CV in cow's milk samples.

MilkoScan™ Minor calibration principle

Either instrument-integrated slope/intercept adjustment, or automatic slope/intercept adjustment for maximum performance on all parameters.
Automatic S/I adjustment uses an external PC with easy-to-use software and data storage.

Options

Upgrade MilkoScan Minor 3 to MilkoScan Minor 6
Sample Result Export to LAN data network

Installation requirements

Dimensions HxWxD:	285x500x360mm
Weight:	22.5kg
Power supply :	100 - 240VAC ±10% , 50 - 60 Hz
Power consumption:	Max. 300VA
Ambient temperature:	10 - 38ºC
Ambient humidity:	Up to 95% RH
Noise level:	< 70 db (A)

Performance data

Measuring speed:	Approx. 40 samples per hour
Measuring range:	
Fat:	0 - 40%
Protein:	0 - 8%
Lactose	0 - 7%
Solids-non-Fat:	0 - 15%
Total Solids:	0 - 50%
FPD*:	0.45 – 0.55°C
Repeatability:	F, P, L, TS, SnF < 0.5% rel.
Purging efficiency:	> 99%
Sample volume:	< 8 ml
Sample temperature:	5 - 40°C
Environ. temp.:	5 - 38°C
Humidity:	0 - 95% RH

MilkoScan™ Minor is based on well known IR-technology used in other FOSS MilkoScans, and complies with IDF standards and AOAC official methods.

* FPD only in cow's milk calibrations
MilkoScan Minor FPD is for screening purposes to detect water addition. We recommend that suspicious samples are further analysed with alternative technology e.g. based on conductivity.

For more information, please visit: www.foss.dk/milkoscanminor

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