

ProcesScan™ FT



ProcesScan™ FT – the most accurate on-line instrument on the market!

Features and benefits

ProcesScan™ FT is an on-line analyser providing highly accurate data for standardisation of milk and valuable liquid dairy products. Employing powerful Fourier Transform InfraRed (FTIR) technology, it determines the content of fat, protein, lactose, solid and other components of milk in the dairy process. ProcesScan FT is unique in making measurements based on the mid infrared spectrum providing unrivalled accuracy for online milk standardisation.

Unique features include:

- Mid-infrared platform for unmatched accuracy
- Fully automatic cleaning system for low maintenance
- Ready-to-use calibrations for rapid start-up
- ProcessTouch™ control software enabling efficient integration of the process analyzer with existing process control software and mechanisms.

Description

ProcesScan FT is a high-end process instrument designed to allow dairy producers to maximize the performance of their processes and standardise the process of mixing milk according to production targets, for example the ratio of protein and total solids.

The unit is installed in the dairy production area and the design enables stable operation even in harsh environments with vibrations and temperature fluctuations. It is possible to CIP clean the unit together with CIP cleaning of the process.

By linking the ProcesScan FT to the FOSS ProcessTouch software, the dairy gets a complete set-up for milk standardisation – a total solution that optimises both production economy and product quality. ProcessTouch analyses the signals from the ProcesScan FT unit and, according to the results, advanced algorithms optimise the component levels in the product by controlling regulating valves or dosing pumps.

Technical specifications:

Ready-to-use calibrations:	Fat, Protein, Lactose, Total Solids (TS), Solids Non Fat (SnF)
Analysis time:	30 sec/measurement
Accuracy:	< 1.0 % Cv* (Fat, Protein and Lactose) 0.5 – 0.8 % Cv (TS and SNF)
Repeatability:	< 0.25 % Cv (milk)
Sample temperature:	5 – 65°C
Sample volume:	1,4 ml per measurement
Response time:	30 sec (depends on customer installation)
Optical system:	Hermetically sealed, humidity controlled
Pipette:	Pipette for easy entry of pilot and calibration samples
Cleaning:	Automatic and programmable with Automatic Clean and Zero setting. Instrument designed for CIP
Enclosure:	Cabinet of stainless steel, sealed according to IP65

* Coefficient of variation = Standard Deviation divided by average of samples tested multiplied by 100

Standards and approvals

The ProceScan™ FT is CE labelled and complies with:

- EMC Directive 89/336/EEC
- Emission: EN 50081-1/2
- Immunity: EN 50082-1/2
- EMC: EN 61326-1
- Low Voltage Directive 73/23/EEC
- Safety: EN 61010-1 Part 1

Installation requirements

Cabinet dimensions:	1660 × 600 × 550 mm (H × W × D excl. PC). Foot stand is approx. 36 cm high
Weight:	Approx. 215 kg
Power supply:	100-240 VAC ± 10%, 50 – 60 Hz
Power consumption:	Max. 600 VA
Ambient temperature:	5 – 40°C
Ambient humidity:	< 93% RH, cyclic up to 100% RH when going from low to high ambient temperature
Process line pressure:	< 10 Bar. Pressure peaks of < 20 Bar are accepted
Product viscosity:	Less than or equal to that of 38% cream at 5°C
Environment:	The unit must be mounted on a concrete foundation

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