Feed & Forage Analyser
Sample Transport Reflectance Only

The Sample Transport Reflectance Only is for ground and unground samples and can be used to analyse parameters like protein, fat, moisture, sugar, starch and fibre in feed ingredients and complete feeds.

Features

- Fast and easy operation; results for several constituents available in one minute
- Transferable calibrations; use the same application model on different instruments
- No sample preparation; many samples can be analysed without drying and grinding
- User-friendly interface with the ISI Software
- Scanning monochromator; ensures you get the complete picture
- Analysis of complete feeds; Poultry Feed, Pig Feed, Cattle Feed, Pet Food, Fish Feed, Hay, Silage
- Analysis of feed ingredients; Soy meal, Corn, Wheat, Barley, Rapeseed, Fish meal, Meat and Bone Meal and many more

Hardware

The Sample Transport Reflectance Only is configured for NIR reflectance measurements using a sample transport mechanism that accepts cups for ground samples, unground samples and liquids. The instrument is available in two versions. The model 5000 with a scanning range of 1100 - 2500 nm and the model 6500 with a scanning range of 400 - 2500 nm.

No application models are included in the standard configuration

Software

The analyser comes with ISIscan™, a complete routine analysis package designed for easy operation of FOSS NIR analysers. ISIscan offers a very user-friendly interface and includes all necessary features for routine analysis: analyser diagnostics, real time outlier detection, bias/slope intercept adjustment, calibration monitoring, LIMS compatibility, customizable reports etc.

ISIscan is compatible with the optional WinISI 4 calibration development software which makes it possible for anybody with just minimum chemometric knowledge to make sophisticated calibration models. WinISI is comprehensive chemometric software for database optimization and calibration development based on MLR, PLS or MPLS regression methods as well as for managing, optimizing and evaluating LOCAL databases.

RINA (Remote Internet Analysis) is the final piece of the solution ensuring optimal performance of the analyser, calibrations and software. RINA is an online networking package that makes it easy to precisely configure, manage and monitor NIR analysers from a remote location.

Sample cells for the Sample Transport module

The following cups can be used for a large number of applications in the feed & forage industries. With the sample cells below you have the flexibility to analyze ground, coarse ground, unground and liquid samples.

Quarter cup
The quarter cup can be used for ground and coarse ground samples. It is available with paperbacks, and a version that can be sealed and used as a check cell.

Natural Product Sample Cell
This cell is for unground samples like whole grain, feed pellets and fresh forage/silage. It is also available in a version with a removable handle for the System II.

Opaque Liquid Cell
The cell can be used for reflectance measurements of opaque liquids like molasses.

Bulk cell
This cell is used together with a hopper to allow for pouring of samples like feed pellets and whole grain. Automatic emptying of the sample cell is one of the features.

Half cup
Typical usage for the halfcup cell is semi-moist samples like wet petfood products.

Ring cup
This cup can be used for powders and all ground samples

System description:

Feed & Forage Analyser Sample Transport Reflectance Only includes this:
Model 5000 Scanning Monochromator
Reflectance Detector Module
Sample Transport Module
ISIscan™ Routine Operation Software
Quarter Cup Check Cell Kit
Installation Manual

Options:

Sample Transport Reflectance Only model 6500 with ISIscan™
WinISI™ 4 Calibration development software
RINA™ networking software

Technical data:

Wavelength range:	5000	1100 - 2500 nm	Operating temperature:	15 - 32°C (60 - 90°F) , nominal
	6500	400 - 2500 nm	Dimensions (w×d×h):	265 × 432 × 419 mm
Scan speed:	1.8 scans/second			10.5 × 17 × 16.5 inches
Detector:	Lead Sulfide,	1100 - 2500 nm	Weight:	21.5 kg
	Silicon,	400 - 1100 nm		47 lbs
Spectral bandwidth:	10 nm ± 1 nm in Reflectance			

Minimum computer requirements

Pentium processor or equal, 512 MB RAM, min 5 GB free hard drive space, SVGA graphics or better, minimum 1 available USB port, Windows® XP.

FOSS

FOSS Analytical
Slangerupgade 69
DK-3400 Hilleroed
Denmark

Tel.: +45 7010 3370
Fax: +45 7010 3371

info@foss.dk
www.foss.dk

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