FOSS

Infratec™

The straightforward digital grain analyser.

ANALYTICS BEYOND MEASURE

Solid, straightforward and reliable, Infratec™ draws on the latest ad-vances in NIR technology, connectivity and usability. It makes the job of quality control easier and less time-consuming as a reliable cor-ner-stone for any grain handling operation.

The most trustworthy results based on advanced NIR technology
Comprehensive ANN calibrations coupled with best repeatability and transferability in the industry. Advanced connectivity let's you keep an eye on instrument performance and operator SOP-compliance from anywhere. Robust IP54 instrumentation withstands even dramatic changes in temperature and humidity.

Make your job easier with enhanced usability
Touch screen operation and intuitive interface with a fast and easy automatic start function: just pour in sample. Refined user interface with custom pin-code access to functionality areas according to op-erator level.

Improve uptime with digital connectivity and support package
Connectivity offers immediate trouble-shooting backup from experts with access to proactive quality assurance using FossAssure™. Predict-able service cost with a remote service subscription at a low flat rate.

Sample type
Wheat, barley, corn and other cereals, oilseeds, beans and pulses.

Parameters
Moisture, protein, oil, test weight, starch, wet gluten, fibre, ash and many more.

Technology
NIR Transmittance

Approvals
(as per EN 15948 standard)

Protected against dust and water splashes (IP54 certified)

Specifications

Feature	Specification
Dimensions (w x d x h)	410 x 460 x 445 mm
Weight	28.5 kg (31 kg with Test Weight Module)
Voltage	220-240V 50-60Hz or 110-120V
Rated current	1.0A (110-120V) / 0.5A (220-240V)
Fuse	T 5 A (250 V)
Power consumption	85 W (24 V)
Input supply	24 V DC from FOSS approved power supply
Spectrometer	Scanning monochromater
Wavelength range	570 - 1100 nm
Detector	Silicon
Optical bandwidth	7 nm
Number of data points/scan	1400
Mode	Transmittance
Light source	Tungsten halogen lamp
Detector	Silicon
Interface	Ethernet, 3 x USB (full function) including one on the instrument front for easy access
Display	10 inch capacitive touch screen
Noise level	< 70 dB(A)
Degree of protection	IP 54

Instrument management	
Networking software	FossManager™

Sample handling and result presentation	
Analysis time	Less than 60 seconds for 10 sub-samples including test weight analysis and as little as 40 seconds when dynamic sub-sampling enabled
Path length	Variable cell automatically controlled from 6 - 33 mm
Result report	Presented on the display as default. Can be sent to PC/LIMS and the printer port
Outlier function	Warnings and options for the presentation of the result
Software	Menu driven with touch screen interface
Regression programs	ANN (Artificial Neural Network); PLS (Partial Least Squares)
No. of sub-samples	Between 1 and 30 sub-samples (10 sub-samples standard)

PATENTED METHOD - US PATENTS; US 4,944,589 AND EUROPEAN PATENTS; EP 0 320 477 B1, 8704886-4.

FOSS
Tel.: +45 7010 3370
info@foss.dk · www.fossanalytics.com
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