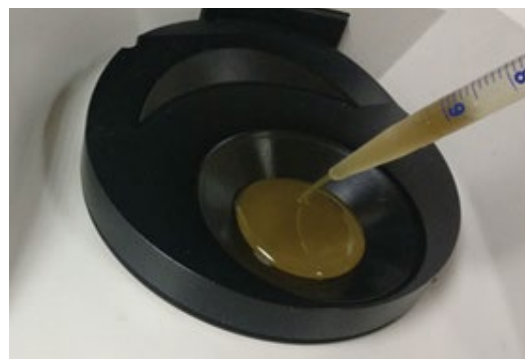


NIRS™ DS3

Rapid, simple and versatile analysis for sugar cane processing



ANALYTICS BEYOND MEASURE

The NIRS™ DS3 sugar cane analyser helps sugar cane processors to monitor and control the production process all the way from incoming cane via several production steps (extraction, filtration, evaporation, centrifugation and more) - to final control of finished sugar and bagasse.

Fast and versatile

All types of samples can be tested as is without sample preparation. Just choose the appropriate cup, place it in the instrument and press start. Results are displayed within a minute.

Save costs and improve production efficiency

The speed and ease of use of the NIRS DS3 saves time and cost of chemicals associated with traditional chemical analysis. What's more, the availability of accurate analysis data at the touch-of-a-button allows you to make faster and more timely adjustments to production for improved efficiency and yield.

Simple to implement and run

The NIRS DS3 is delivered with ready to use calibrations for all key parameters and FossManager™ networking software makes it possible to monitor, configure and adjust the instrument remotely.

Sample type

Shredded/prepared cane, cane juice, filter cake, syrup, massecuite, seed magma, crystal sugar, molasses and bagasse

Parameters

Pol, brix, purity, moisture, ash, RS, and more

Technology

NIR monochromator across the full spectral range from 400 to 2500 nm.

Factory standardisation ensures seamless transfer of calibrations.

Completely dust tight and water protected if exposed to water jets (IP65 certified)

Specifications

Feature	Specification
Dimensions (w x d x h)	375 x 490 x 300 mm
Weight	27 kg
Degree of protection	IP 65
Measurement mode	Reflectance or transmittance (for liquids)
Wavelength range	400 - 2500 nm
Detector	Silicon (400 - 1100 nm), Lead Sulphide, PbS (1100 - 2500 nm)
Optical bandwidth	8.75 ± 0.10 nm
Data resolution	0.5 nm
Number of data points	4200
Number of subsamples	Default: 7 for small cup; 8 for large cup
Self test	12 minutes (variable)
Analysis time	<1 minute for 32 scans (8 subsamples, 4 scans per subsample)
Network connections	FossManager™

Installation requirements

NIRS™ DS3	
Voltage supply	100-240 V AC*, frequency 50-60 Hz, Class 1, protective earth
Ambient temperature	5 - 40°C
Storage temperature	-20 to 70°C
Ambient humidity	< 93% RH
Mechanical environment	Stationary during use
EMC environment	Laboratory use, industry requirements

*Mains supply voltage fluctuations not exceeding ±10% of the rated voltage.

Optional services

Digital Services	FossAssure™
Care Solutions	FossCare™, SmartCare™