

NIR-CS-1000C1B-1/2/3

Model 1000B Whole Grain Analyser

1000B is a Near Infrared Transmission Analyser designed to measure protein, oil, starch and moisture in whole grains of wheat, barley, oats, sorghum, canola., corn and soybeans. An optional test weight module is available for the 1000B. The 1000B uses a diode array spectrometer to scan the wavelength region, 720-1100nm. Within this region of the NIT spectrum, protein, moisture, oil and starch absorb NIR energy. Grain is poured into a 500ml sample cup. A blade is inserted across the grain and the excess grain is poured out. The blade is removed from the cup and the 500ml of grain is poured into the sample hopper. The grain is metered through the optical chamber where the NIT spectra are collected and stored in memory. The average of between 10 and 30 spectra are used to compute the percentage protein, oil and moisture. The grain falls into the sample cup which is located on a load cell. The weight of the 500ml of grain is recorded and displayed along with the protein, oil and moisture.



Australian designed and manufactured

Features	Benefits
NIR Transmission Technology	Same NIR technology as used throughout world grain trading
Flow Through Sampling System	Rapid and simple to use
Optional Test Weight Module	Provides Hectolitre weight measurement
Diode Array optics	Unaffected by vibration Independent of orientation Rugged, stable and compact
Internal Computer keyboard, LCD	Stores calibrations and predicts constituents onto a LCD Save results using alpha numeric characters
RS232 Serial Port, USB Memory	Provides a convenient method of uploading stored data to a PC or to download calibrations to the instrument
Small footprint	Requires less bench space
Specifications	
Scan range	720-1100 nm
Constituents	Up to 6 constituents displayed including protein, moisture, oil and test weight
Pixels	38
Scan speed	2-4 seconds
Power	110/240VAC, 18VDC
Weight and dimension	12kg, 330mm(W) *300mm(D)* 400mm(H)

Certified under the NMI Pattern Approval for Protein Measurement.