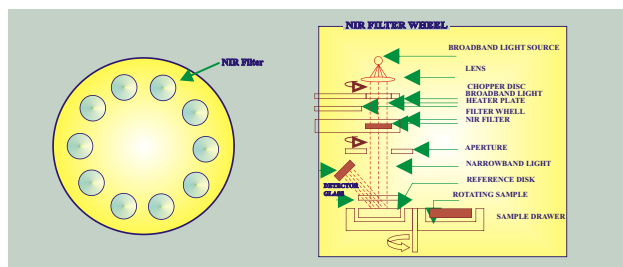


Digital Cereal/Grain Analyser



Optical Assembly Configuration of Digital Cereal / Grain Analyser



7705

DESCRIPTION

Digital Cereal/Grain Analyser **TYPE 7705** is a precision electronic instrument for analysing the contents of protein, oil/fat and moisture in different types of grains and oil seeds. The measurement of these contents determine the overall quality characteristics of the grains or oil seeds. Normally the measurement of these parameters by chemical methods is highly time consuming and cumbersome.

The Digital Cereal/Grain Analyser is simple-to-use and user friendly instrument. This instrument gives direct read-out of the values of protein, oil/fat and moisture in computer display.

Digital Cereal/Grain Analyser has been developed in technical collaboration with the Central Scientific Instruments Organisation, Chandigarh under the Technology Modernisation for Oil and Pulses Industry Mission of the Ministry of Agriculture, Govt. of India, New Delhi.

This Instrument has been designed to provide higher productivity, efficiency and cost benefit to Oil and Pulses producing farmers and corresponding industries.

TECHNICAL SPECIFICATION

The Digital Cereal / Grain Analyser measures the percentage concentration of constituents like moisture, oil, protein etc. in a wide range of commodities common to the grain, oil seeds and food industries etc.

Measurement	Percentage concentration of constituents like Oil, Fats, Protein & Moisture contents in different types of grains & oil seeds.
Grain & Oil Seeds	Sunflower, Mustard, Groundnut Oil, Soyabean, Rapeseed, Rice Bran, Wheat etc.
Wavelengths and Unit Capacity	The system is equipped with five optical filters. Provision for further addition of five more filters has been made
Environment	The system must not be used in hazardous locations i.e. there should not be any rapid temperature change at its location.
Sample Cup	Two sample cups, a sample cup - loading tray, spatula and brushes are provided with the system.
Requirements of the Computer System	Windows 98 / Windows 2000 / Windows XP compatible PC.
Electrical Power :	
Voltage Range	110 - 260 Volts AC
Frequency	47 - 63 Hz.
Power Consumption	» 100 Watts
Weight	» 5 Kg.

CALIBRATION

A large number of standard samples of a particular Cereal/Oil Seed or Grains are taken with different percentage content of moisture, oil and fats, etc. and calibrated using the software against these samples.

The various agencies likely to benefit are

FOOD PROCESSING INDUSTRIES

R & D ESTABLISHMENTS

OIL MILLS

PROCUREMENT AGENCIES

AGRICULTURAL UNIVERSITIES