

MultiScan Series 5000 Inline Analyser

The Series 5000 Inline Analyser is a powerful near infrared spectrophotometer capable of measuring protein, moisture, fat, alcohol, sugars and other components in cereal grains, oil seeds, dairy products, small goods and processed meats, dough, beverages, pellets, granules, liquids and slurries. The instrument consists of a NIR Spectrometer, a Remote Sampling Device and a Remote Display Module. The NIR Spectrometer can be mounted up to 10 meters from the sampling point. The Remote Sampling Device is mounted on an auger, a pipe or a conveyor belt and is connected to the NIR Spectrometer using a Fiber Optic Cable. The Remote Sampling Device collects the NIR light transmitted through or reflected off the sample. The Fiber Optic Cable transmits the light back to the spectrometer where the component concentrations are calculated. The data is displayed on the Remote Display Module, which can be mounted at a convenient position for use by an operator. Alternatively the system can be operated from our software running on a PC and the data shown in real time in the form of trend charts. 4-20mA output signals are also available for supply to other process control equipment. Australian designed and manufactured.



Features

NIR Transmission and Reflectance technology

Broad Spectral Range, 720-1100nm

Diode Array Spectrometer

RS232 Serial Port

Rugged Industrial Enclosure:
IP-66 Stainless Steel or Powder Coated Steel

Benefits

Optimal Spectral Collection: - Transmittance provides measurement through liquids, slurries and grains.

Reflectance provides measurement off the surface of sample that is too dense for transmittance, eg, powders

Multiple constituent analyses

Optimum calibration development using PLS Regression

1st and 2nd derivative spectral data

Qualitative and quantitative analysis

No Moving Parts in Spectrometer

Unaffected by vibration

Independent of orientation

Rugged, stable and compact

Provides a convenient method to upload stored data to a PC or to download calibrations to the instrument

Suitable for in field and at line use

Dust proof

Specifications

Scan Range:

720-1100nm

Pixels

38

Analysis Speed

1-3 seconds per analysis

Power:

110/240VAC, 18VDC

Weight and Dimensions:

15Kg, 300mm(W) x 300mm(D) x 120mm(H)

Applications

Grains

Protein and Moisture in Wheat at silos and flour mills

Dairy Products

Protein, Moisture, Fat and Lactose in Cheese, Milk, Butter

Oil Seeds

Oil and Moisture in Oil Seeds, Oil in Meals

Meat

Protein, Moisture and Fat in raw and processed meat

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