

# Near- Infrared Transmittance Rice Composition Analyzer



Model AN820



**Tomorrow's Testing, Today !**  
**1-800-438-5388**

# Advanced Rice Composition Analyzer

## Instantly Measure Protein, Moisture and Amylose

This simple-to-use instrument measures protein, amylose and moisture content in rice. The AN820 is factory calibrated to handle short, medium and long grain brown rice as well as milled rice. Even high moisture brown rice can be accurately measured. In addition to the three components, the AN820 provides an overall quality assessment (QEV) to help you determine the value of each rice sample and scientifically manage the taste of rice.

Accurate measurement is achieved without pre-processing the samples by husking and grinding that is often required in competitive devices. This dramatically reduces the overall test cycle allowing you to focus on improving product quality and not on sampling and prep work.

### Simple Operation - Research Grade Results

To test a sample, simply fill the sample case with rice and insert the case into the slot on the top of the AN820. In less than 40 seconds all of the measured components are displayed on the large digital screen and output to your computer or optional printer.



- Pour a sample into one of the cases.



- Insert the case and close the cover.



- The test is completed within 40 seconds.

### Outstanding Measurement Stability

Measurements are made using light transmittance (through the sample) utilizing Near-Infrared light spectra. When compared with near-infrared reflectance methods, the transmittance method used by the AN820 is unaffected by the shape and/or color of the sample, thereby providing improved precision and measurement stability. Three discrete measurements spots are analyzed on each sample, helping ensure that even heterogeneous samples are accurately measured.

The AN820 has no moving parts and is impervious by vibration and independent of orientation of the instrument. This allows it to be utilized on the manufacturing floor, providing instant feedback to your staff. Integrated temperature compensation allows the grain to be tested at any stage of the process in any manufacturing environment.

### Designed for Years of Stable Use

The AN820 scans from 720-1100nm, providing very consistent and robust constituent analysis with the integrated PLS calibrations.

Kett stands behind the AN820 systems with a full **One-Year** manufacturer's warranty on parts and labor. Kett's dependability and reliability allow you to productively focus on improving your product's quality and not waste time calibrating and verifying our gauges. Kett is recognized as the worldwide leader in rice measurement instrumentation. With almost 60 years of design and manufacturing excellence, the AN820, like all Kett instruments, is the standard by which others are judged.

## Specifications

<b>AN820</b>	
Measurement Principle	Near-Infrared Transmittance Grating with Diode Array
Light Source	Tungsten Lamp
Measurement Range	Protein 4-12%, Moisture 10-20%, Amylose 15-25%, Quality Evaluation Value
Rice Types (Pre Calibrated)	Short Brown Rice, Short Milled Rice, H-Moist Short B.R., R.F.R-B.G., R.F.R-TWR, Long Brown Rice, Long Milled Rice
Sample Volume	Approximately 60ml
Response Time	40 seconds/sample
Accuracy	+/- 0.1%
Resolution	0.1%
Display	Product, Constituent, Value, Date, Time
Ambient Temperature	0-35°C
Ambient Humidity	0-85% RH (non-condensing)
Power Source	100-240VAC max 50W
Functions	Average, Offset
Display Type	Backlit LCD
Communications	RS232C, Printer output
Measurement Mode	Single 4 Constituents per Test
Weight (kg) (Net/Shipment)	13/17
Dimensions (mm)	260Wx380Hx350(D)
Options	VZ330 Printer
Warranty	One Year Parts and Labor Maintenance Agreements available

### Tomorrow's Testing, Today!

In addition to our unique AN820, Kett manufactures almost 200 different instruments. Available for portable handheld, laboratory desktop or online process applications, if you have a measurement requirement, we offer solutions....today! If you need to measure organic constituents - accurately, quickly, and simply, wish to place an order, or require additional guidance on model selection, please call Kett toll-free!

# 1-800-GET-KETT



PMB 504, 17853 Santiago Boulevard,  
Suite 107, Villa Park, CA 92861  
714-974-8837 • 714-974-8877 (FAX)

**1-800-438-5388**

[www.Kett.com](http://www.Kett.com)

**Sales, Support, Service**

**ISO 9001**

