

ADVANCED NEAR-INFRARED COMPOSITION METER

Kett

Model KB270

SCIENCE OF SENSING



Kett

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

Infrared Composition Meter

Instant Non-Contact Process Measurement

This simple-to-use device allows the user to measure the various chemical components of virtually any liquid or solid, without product preparation or degradation. Using the principle of near-infrared reflectance, constituents such as moisture, water activity, solids, fat/oil, protein, film thickness, coat weight, and carbon content (BTU) can be instantly measured. Ash content can also be calculated.

Kett Composition Meters are ideal for foods, chemicals, pharmaceuticals, pulp/paper products, polymers and most products containing organic substances. Test results are as accurate as the precision of the lab method initially used to calibrate the KB270. Tests can be conducted by personnel of any skill level and can be used both at-line and in the laboratory.

The ability to test in almost any situation opens new doors to product and process improvement. R&D personnel can easily analyze formulations throughout development, not just in laboratory settings. Manufacturing personnel can measure products on the production line, improving quality assessment and production throughput.

Simple Operation

Once calibrated, a liquid or solid sample is placed in the KB270 sample dish. Measurements are instant or the automatic sample averaging process can be used for non-homogenous samples. Light is reflected off of the sample and the amount of light absorbed at discrete wavelengths is measured. These absorbance readings are converted into component values.

The average value measured during the test is shown on the integrated display and automatically forwarded to an optional PC and/or printer for test documentation. Up to 50 product calibrations can be stored in each system, allowing numerous products to be easily measured on a single analyzer. An unlimited number of product calibrations can be downloaded from a PC. This smart system can be used without a computer.

Designed for Years of Stable Use

Integrated temperature compensation, a sealed membrane keypad, efficient cooling fans and sealed optical well to keep spills from measurement surfaces all combine to provide years of service from the KB270. To maintain calibration over the life of the instrument, the included "zero plate" automatically returns the KB270 to the baseline measurement as needed.

Kett stands behind the KB270 systems with a full **One-Year Total Care Warranty** on parts, labor, and specification compliance. Kett's dependability and reliability allow you to productively focus on improving your product's quality without wasting time calibrating or verifying our instrumentation.

Specifications

Model	KB270
Measurement Range	0-100%
Measurement Distance	N/A
Measurement Diameter	150/90mm,30 (opt), custom
Response Time	Instantaneous
Refresh Rate	0.5 Seconds
Analytical Curves	50 Internal - Unlimited from the PC/Laptop
Ambient Temperature	0-35°C
Ambient Humidity	0-90% RH Non Condensing
Accuracy	+/- 0.01% or better (reference-dependent)
Precision	To 0.001% nominal
Display	Channel, Name, Absorbance, Value
Power Source	100-200V +/- 10% VAC 50W
Measuring Principle	NIR Reflectance/Absorbance or Transmission
Light Source	Tungsten Lamp
Detector	Lead Sulfide
Display Type	OLED
Communications	USB, Ethernet
Measurement Modes	Sample or Constant
Printer Option	VZ800
Weight (Net/Shipment)	11/18.2kg
Dimensions (mm)	230Hx415Wx370D
Warranty	Total Care Warranty Maintenance Agreements Available

Full Complement

Offering a complete line of NIR testing systems, Kett manufactures process analyzers for automated online measurement including the world's first handheld portable analyzer. If you need to measure product composition, wish to place an order, or require additional guidance on model selection, please call Kett toll-free!

1-800-GET-KETT

Tomorrow's Testing, Today!

Kett offers a complete line of innovative measurement devices — for laboratory, field, and process applications. If your company needs fast, accurate measurements, get Kett!

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