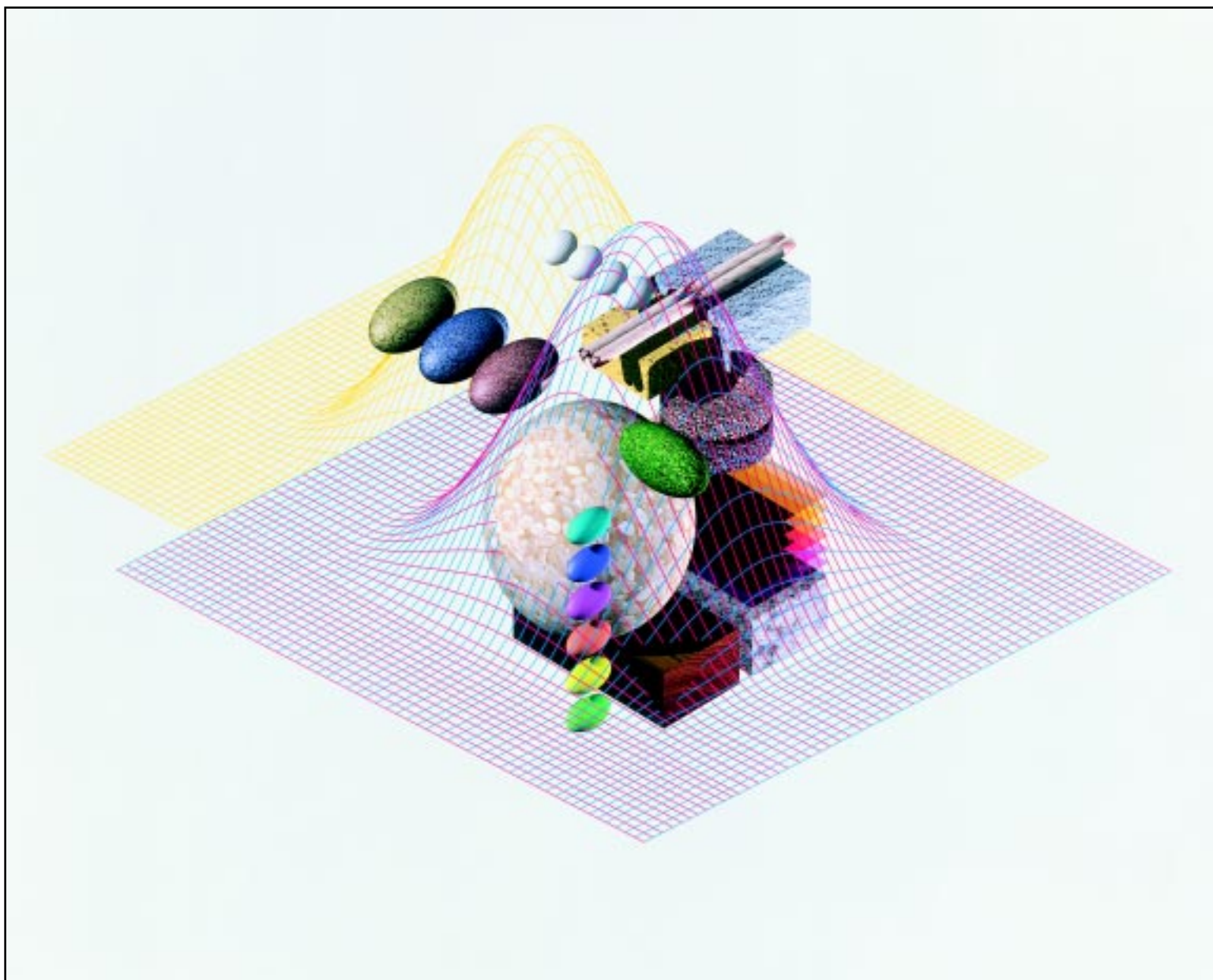


MICROWAVE MOISTURE METERS

Kett

SCIENCE OF SENSING

Models 94T and 94L



Kett

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

Microwave Moisture Meters

Why Measure Moisture?

The amount of moisture in a product can greatly affect perceived quality and is also very important when making transactions based on weight. Small errors in measurement can have very large repercussions. For these reasons, it is crucial to have accurate moisture content readings when performing inspections and examinations, to maintain and adjust quality, and to ensure equitable transactions.



Moisture content testers were developed to obtain accurate measurements of these subtle yet important values. As a pioneer in the field of moisture content testers, Kett has developed a large variety of models for different materials, applications and purposes. These products help our customers to meet specifications and standards.

Theory of Operation

Microwave energy is generated by a safe 1mW oscillator and passes through the product. As the dielectric constant of water is higher than other materials, the signal decreases (attenuates) in direct proportion to the moisture content of the sample. This attenuated signal is measured by a detector. After calibration against laboratory standards, the Microwave Moisture Meter can instantly convert this signal into a direct moisture (or total solids) content.

Advantages of Microwave Meters

Microwave Moisture Meters provide instant, non-contact, nondestructive testing. In addition, the microwave energy is transmitted *through* the sample, allowing accurate testing of heterogeneous samples and samples that have encapsulated moisture. Safe and efficient, these systems provide years of accurate operation.

Calibration Simplicity

Menu-driven operation provides simple calibration and measurement. With appropriate samples, initial calibration can be completed in minutes. Once calibrated, the system maintains stability by a unique referencing system. Up to fifty calibrations can be stored in each system. Optional software allows for unlimited calibrations.

Who Can Use A Microwave Moisture Meter?

The vast number of products and applications affected by moisture content may be surprising:

- Mining
- Hardwood & Plywood
- Frozen Foods
- Fertilizers
- Packaged Goods
- Multilayered Products
- Bulk Powders
- Liquids
- Encapsulated Products
- Hazardous Wastes

The list is virtually endless. Does your company require accurate moisture readings? If so, you should consider a Kett Microwave Moisture Meter. In the world of moisture testers, accuracy, speed, reliability and service have made Kett world-renowned for over fifty years.

Model 94T - Desktop System



The 94T Desktop System offers a compact solution for near-line sampling or laboratory analysis. Select the product calibration from the touch panel, place the sample on the measurement platform and the 94T provides the moisture value in less than two seconds. Samples can be tested as quickly as they can be placed on the system.

Easy Maintenance

Maintenance consists of periodically wiping the machine with a damp cloth. Weigh pans, balances, sample preparation, and chemicals are not needed. Years of development have made the 94T versatile, while eliminating procedures that are cumbersome and inefficient.

Standard Kett Features

Kett offers a collection of standard features generally only available on higher-priced units. When the system is started, a nonvolatile memory remembers the calibration that was last used and automatically uses this calibration to begin testing.

Both units provide highly visible LED characters, tactile membrane keypads, and clear command descriptions. This allows all personnel to easily work with the unit after minimal training.

RS232 output ensures that data can be readily transmitted within your facility for rapid monitoring and automatic database updates. With the capability to provide up to 100 discrete measurements per second, both systems can provide the precision required for critical hydration tests.

Custom Production Systems

Kett offers custom configurations and software to control any process. Multiple sensors, integrated database management and the ability to manage systems and data across LAN's and WAN's provide unmatched versatility. Please contact a Kett Applications Engineer to discuss your specific requirements.



Model 94L - Production System



Our cost-effective 94L Production System provides instant, on-line measurement of liquids, solids and slurries, without sample preparation or handling. Originally developed by a manufacturer for their internal process control, the 94L offers a rugged design in a compact form factor, allowing placement in locations where the environment is unfriendly and space is minimal. Over 1000 systems are currently installed worldwide. Integrated electronics provide high-quality, long-term performance on an easily affordable budget.

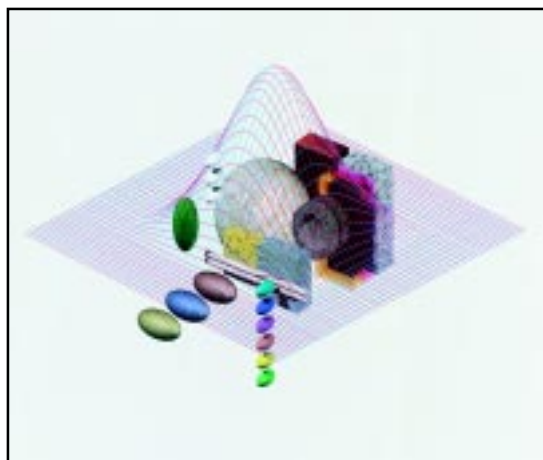
4-20mA output, high/low alarms, automatic measurement smoothing and integrated input for temperature and weight compensation are just a few of the primary features engineered for solid, robust performance.

Specifications

Summary

By now, you have decided which Kett Microwave Meter you would like to purchase. Kett offers high quality, accurate Microwave Moisture Meters that will perform to your most stringent expectations. If you wish to place an order, or if you require additional guidance on model selection, please

CALL TOLL FREE (800)-GET-KETT
(800)-438-5388



Model	MM 94T	MM 94L
Measurement Range	0-100%	0-100%
Sample Depth	40mm	40mm
Minimum Indication	.1%	.1%
Accuracy	+/- .1%	+/- .1%
Calibration Storage	50	50
Integrated Calibration	Y	Y
Measurement Rate	.01 seconds	.01 seconds
Display Refresh	.1 seconds	.1 seconds
Display	LED	LED
Moisture	Y	Y
Voltage	Y	Y
Calibration	Y	Y
Error Code	Y	Y
Power Source	115/220V	115/220V
Measuring Principle	Microwave Transmission Signal Attenuation	
Signal Source	1mW Oscillator	1mW Oscillator
Printer Compatible	Y	Y
Measurement Modes		
Continuous	Y	Y
Sample	Y	Y
Input	N	Temp/Weight/Timing
Output	RS232	RS232/4-20mA
Weight (Net / Shipment)	35/40lbs	50/70 lbs
Dimensions (mm)	615Hx320Wx378D	220x280x150(Cont.) 130x120x220 (Sensor)
Warranty	All Kett Moisture Microwave Meters are covered by a one-year manufacturer's warranty on parts and labor. Post-warranty maintenance agreements are also available. Please call for information.	

ACCESSORIES AND OPTIONS

Data Collection Software

PC Software is available for all models for calibration, data collection and analysis

Printer Options

All models have printer ports and allow you to print measurement documentation.

Tomorrow's Testing, Today!

Kett offers a complete line of innovative test and analysis equipment — for process, laboratory, and field applications. Moisture testing is our business! If your company requires quick, accurate measurements, get Kett!



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