

Biomass Fuel Moisture Tester Model HI-700

*A few seconds
to improve combustion efficiency*



Biomass Fuel Moisture Tester Model HI-700

Woody biomass power generation is a remarkable renewable energy.

Fuels for biomass power generation use various resources such as PKS, wood pellets, sawdust, etc., and the amount of water contained is also various. In addition, the water content of the fuel is directly related to the calorific value, the ignitability, and the combustibility, and greatly affects the power generation efficiency of the boiler, so appropriate water management is required.

So far, the moisture content of various fuels has been measured using the "Detection of weight loss by heating & drying", but the main drawbacks have been the lack of speed and the need for specialized equipment.

This unit "Biomass Fuel Moisture Tester model HI-700" is based on the concept that moisture can be measured easily and quickly to overcome the above problems. The sample can be poured into the instrument body and the moisture can be measured in a few seconds. Although it is a simple operation, it is calculated using calibration curves of various biomass fuels registered in advance, so it is possible to obtain highly reliable water values.

We are active in various fields such as production of various types of biomass fuels, import and export of foreign-made fuels, and acceptance at power plants.

• Automatic density and temperature correction

The capacitance principle is affected by both density and temperature. The HI-700 includes an integrated scale and thermistor to automatically compensate for variation in both, ensuring accurate moisture measurement each time.

• Versatile operation

Lightweight, easy to hold, large buttons, audible and display icons (samples below) make the HI-700 an instrument anyone can use, in almost any environment.

		
Pouring sample	Discharging sample	Replace the batteries

Quick and Easy Operation



 <p>KETT ELECTRIC LABORATORY 1-8-1 Minami-Magome, Ota-ku, Tokyo 143-8507, JAPAN ☎ +81-3-3776-1121 ☎ +81-3-3772-3001 🌐 http://www.kett.co.jp/ ✉ overseas@kett.co.jp</p> <p>Management system enhancement department of the Japanese Standards Association (JSA) registers the Quality Management System of the above organization, with conform to JIS Q 9001, ISO 9001. The scope of the registration. Design, development and production management, calibration and repair of Moisture testers, NIR composition analyzers, Grain inspectors and Coating thickness testers.</p>	<p>Contact</p>
--	----------------

Product List

CH	Applications	Range	Standard method
01	PKSD Palm Kernel Shell Dura	3-25%	ISO18134-1
02	PKST Palm Kernel Shell Tenera	3-30%	ISO18134-1
03	PKS Palm Kernel Shell All	3-35%	ISO18134-1
04	Wood Pellet	3-14%	ISO18134-1
05	Rice Husk	10-40%	ISO18134-1
06	Saw Dust Normal	10-60%	ISO18134-1
07	Saw Dust Chain Saw	10-60%	ISO18134-1

Specification

Measuring principal	Capacitance (Dielectric) (50MHz)
Applications	solid biomass fuel
Measurement range	3-60% (product dependent)
Accuracy	Standard error of 1.0% or less versus standard method. (all products with moisture content of less than 20%)
Sample volume	240mL
Operating temp. range	0-40°C
Functions	Weight scale, Automatic temperature correction by integrated thermistor, Auto-power off, Auto-display for battery level icon, Average
Display	Digital LCD
Power supply	Batteries(1.5V alkaline "AA" size x 4)
Power consumption	240mW
Dimensions & weight	125(W) x 205(D) x 215(H) mm, approx.1.3kg
Standard Accessories	Funnel, Manual hopper(sample cup), Brush, Batteries(1.5V alkaline AA size x4), Operating manual.