

**Kett**

SCIENCE OF SENSING

# PM-450 (version 4501)

## Grain Moisture Tester



# Grain Moisture Tester PM-450

*Fast, Reliable, Simple to operate, Competitively priced, Many measurement applications*

The PM-450, version 4501 is a general purpose instrument for worldwide use. It will measure a wide variety of applications including wheat, corn, sunflowers, hazelnuts, coffee, etc.

## Special Features

### • Wide list of calibrations

Version 4501 is used for grains, seeds, and other small products.

**Other versions of the PM-450 are available. Please contact us!**

### • Wide Measurement ranges

The PM-450 can measure the moisture content in grain and seed samples between 1-40% depending on the grain and the PM-450 version.

### • Automatic density and temperature correction

The capacitance principle is affected by both density and temperature. The PM-450 includes an integrated scale and thermistor to automatically compensate for variation in both, ensuring accurate moisture measurement each time.

### • Pre-programmed calibration curves

Factory calibrations are provided so that the PM-450 is immediately usable.

### • Automatic Power Off

If no measurement or operation is performed for 3 minutes with the power on, the power is automatically turned off to maximize battery life.

### • Average facility

A sample average can be automatically calculated (simple arithmetic mean) for 2-9 tests.

### • Stable load cell

Improvements in the load cell provide even better weight measurement stability when compared with our earlier models.

### • Versatile operation

Lightweight, easy to hold, large buttons, audible and display icons (samples below) make the PM-450 an instrument anyone can use, in almost any environment.

		
Pouring sample	Discharging sample	Replace the batteries

## Product List : version 4501

01	Wheat	6-40%	15	Buckwheat	6-30%
02	Barley	6-40%	16	Peanuts	4-20%
03	Corn (Maize)	6-35%	17	Black pepper	4-20%
04	Soybean	6-30%	18	Mung bean	6-30%
05	Canola (Rapeseed)	6-30%	19	Beans	6-30%
06	Rye	6-30%	20	Pea	6-35%
07	Oats	6-30%	21	Clove	6-20%
08	Sorghum	6-30%	22	Dry cherry coffee	4-40%
09	Sunflower (Large)	6-30%	23	Green coffee	4-30%
10	Sunflower (Medium)	4-20%	24	Roast coffee	1-20%
11	Sunflower (Small)	6-20%	25	Parchment coffee A (Arabica)	4-40%
12	Long paddy	9-35%	26	Parchment coffee R (Robusta)	4-40%
13	Long milled rice	9-20%			
14	Hazelnuts	4-15%			

## Specification : version 4501

Measuring principal	Capacitance (Dielectric) (50MHz)
Applications	Grains, Seeds, etc. (application dependent)
Measurement range	1-40% (sample dependent)
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.

## Quick and Easy Operation



Press power ON



Select product number (application)



Press [MEA.] key



Pouring sample



The moisture content is displayed

**Kett** **KETT ELECTRIC LABORATORY**  
 1-8-1 Minami-Magome Ota-Ku, Tokyo 143-8507 Japan  
 Tel. +81-3-3776-1121 Fax. +81-3-3772-3001  
 URL <http://www.kett.co.jp/> E-mail [overseas@kett.co.jp](mailto:overseas@kett.co.jp)

Management System Enhancement Department of the Japanese Standards Association (JSA) registers the Quality Management System of the above organization, which conform to JIS Q 9001, ISO 9001.  
 The Scope of the Registration.  
 Design, development and production management of Moisture Testers, NIR Composition Analyzers, Grain Inspectors and Coating Thickness Testers. Calibration and repair of Moisture Testers, NIR Composition Analyzers, Grain Inspectors and Coating Thickness Testers.

## Requests