

# Moisture meter type Super CHTM2 model 25K.

The device for measuring moisture content in bulky materials, including corn, maize, vegetable seeds, flower seeds, and many others.

The product invented, designed, developed and manufactured in Poland.



**Super CHTM2 model** is designed to examine the moisture content in many bulky materials, including agricultural substances as well as in further processed materials, chemical and technical materials also. Every unit is programmed with over 100 different calibrations, for example as below:

**Wheat, Rye, Barley, Oat, Rape, Maize, Vetch, Pea, Lupines, Bean, Buckwheat, Charlock, Millet, Lucerne, Flax, Buckwheat, Ampalaya, Grist (Malt), Pumpkin, Cucurbita, Borage, Nigella, Thistle, Spinach, Carrot, Parsley, Radish, Cress, Lettuce, Beet, Okra, Egg Plant, Sunflower, Chicory, Fennel, Capsicum, Tomato, Cabbage, Celery, Cucumber, Dahlia, Aster, Marguerite, Pansy, Violet, Delphinium, Shamrock, Pine, Sloth Fir, Spruce, Beech, Oak, Larch, Fir, Wheat Flour, Wheat Bran, Semolina, Porridge, Noodles, Rye Flour, Rye Bran, Indian Meal, Maize Grouts, Milk Powder, Eggs Powder, Coffee, Green Coffee, Rice, Pasture, Seasonings.....**

With help of equipped interfaces and free software the user is able to add his own calibration curves for new materials.

- ✓ The meter is intended to examine and measure the moisture content in whole range of known humidity for every measured substances. Therefore the specifications shows only substance/product name but not about the lowest or highest moisture content point.
- ✓ The Small outline dimensions (61mm x 104mm x 190mm), relatively light weight about 500g. and also battery powering makes the unit fully hand held meter.
- ✓ The small measuring cavity with capacity about 150ccm and patented mechanical compacting method guarantee the very good measure recurrence, with error about  $\pm 0.1\%$  and the measure accuracy with expected error less than  $\pm 0.5\%$ .

- ✓ The results, commands and other important for the customer informations are shown on the OLED graphical display. Is possible to display substance names and commands in any requested language. The basic language is English.
- ✓ The unit examine the moisture content with use of the high frequency impedance (also known as capacitance) measurement method. The measured materials are not damaged, changed or affected in any way.
- ✓ Every unit is equipped with InfraRed temperature sensor, the measurement resolution 0,1°C and range -25°C to 95°C. The readouts are used with moisture correction - automatic temperature compensation - and displayed on OLED as well.
- ✓ The biggest advantage over all other hand held units is built in the electronic scales based on vibration method of work. It lets to use of rough portion of given measured material with ammout about 100ml. Next, during measurement, the unit perform the mass and temperature correction of moisture content results.
- ✓The unit is highly resistant to dust and vibrations. This factors does not affect on measurement accuracy and stability and mechanical condition as well.
- ✓The measuring cavity is made from Aluminium, ABS plastic and nylon, therefore the unit does not affect or reacts with all of the measured materials. The measurement cavity meets the "Food Grade" requirements.
- ✓ Thanks to many patented technical solutions applied in our meter every unit keeps the highest accuracy and stability standards for many years with no need of frequent calibrations and service checkings.
- ✓ The handling of the meter is very easy, the display shows all necessary information, the user should only choose the substance name and press '%' button to get results - that's all. The result of moisture content will be displayed after few seconds as percentage of moisture content.
- ✓ The unit is designed to work with many internal interfaces, the basic, built in option is the BLUETOOTH (BT) interface. On special customer request RS232, I2C, USB can be added.
- ✓ At [www.asonik.eu](http://www.asonik.eu) it is available for free to download the PC software to change internal parameters, such as: calibration curves, commands and name's language, names or order numbers of used substances.
- ✓ The PC software let also with help of BLUETOOTH interface for remote collection of measurement data, the distance is up to 100m. The proper software is also available for free download at [www.asonik.eu](http://www.asonik.eu) .
- ✓ The unit is powered with 4 batteries R6 (AA) size and with nominal voltage between 1.2V to 1.6V. Therefore is possible to use the alkaline batteries or recharge batteries as NiMH. The unit lets to make several hundred measurements on one battery set.