Model: GM650

Grain Moisture Meter Instruction Manual

Version:GM650-EN-00

Ⅰ. Product Introduction

This product is a grain moisture meter, which can quickly measure the moisture in many kinds of grains. It is suitable for grain transfer, requisition, storage, processing, etc.

Functional features:

(1) 14 grain varieties to choose from;
(2) Grain moisture testing;
(3) Grain moisture standard setting;
(4) Moisture limit setting and voice prompt;
(5) Deviation adjustment;
(6) 4 types of voice reminders;
(7) Dual rod sensors (metal probes);
(8) LCD backlight display;
(9) Low battery alert;
(10) Automatic shutdown function.

Ⅱ. Safety Instructions

1. Warnings:
The probe of this product is very sharp. In order to avoid injury, do not use the probe to others, and do not give the probe to children as a toy.
2. Cautions:
Do not let the instrument and the probe touch water or any corrosive liquid.
Do not let the measuring probe touch any electrically charged objects, so as not to damage the instrument.
3. Tips:
When using the measuring probe to measure moisture, grain pressure has a large impact on the measurement. When the grain is placed in multiple layers, the grain pressure of the lower layer is large and the test value is high. Correction should be made according to the experience accumulated. When moisture is 13% or less, grain pressure has less influence on the measurement.

Ⅲ. The Code and Moisture Measurement Range of Various Categories

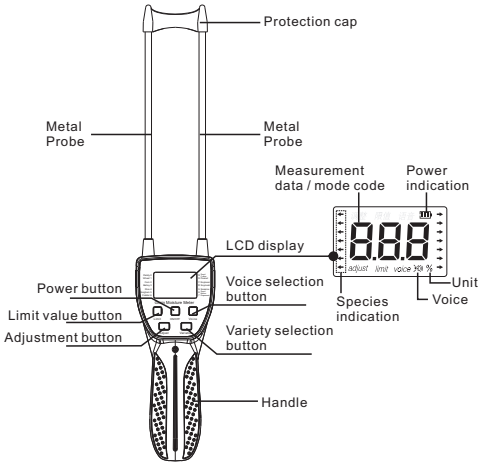
Species	Paddy	Wheat	Corn	Barley	Rice	Sorghum	Fodder
Code	P0	P1	P2	P3	P4	P5	P6
Range (%)	11~55	11~55	11.5~50	11~50	11~50	11~50	11.5~50

Species	Rapeseed	Seed Melon	Sesame	Soymeal	Soybean	Peanut
Code	P7	P8	P9	P10	P11	P12
Range (%)	7.5~44	11~50	7.5~44	7.5~44	10~50	10~50

Species	Seed Cotton
Code	P13
Range (%)	7.5~44

Other parameters:
1. Water content value display resolution: 0.1%
2. Measurement principle: resistance method
3. Sampling mode: continuous sampling
4. Battery: 1.5V AA battery *4

IV. Names of the Components



V. Operating instructions

1. Turn on/off the machine:
After installing the battery, short press the "on/off" button, the display will show "on", and there will be a voice prompt "Turn on", which means power on; long press the "on/off" button, the display will show "oFF", and there will be a voice prompt "Turn off", which means power off. If there is no operation, the machine will be automatically shut down in 15 minutes.
2. Measure the moisture content of grain:
Short press the "variety" button to switch cyclically:
P0: Paddy - P1: Wheat - P2: Corn - P3: Barley - P4: Rice - P5: Sorghum - P6: Fodder - P7: Rapeseed - P8: Seed Melon - P9: Sesame - P10: Soymeal - P11: Soybean - P12: Peanut - P13: Seed Cotton, there are 14 kinds of measuring grain mode, and a voice will broadcast the corresponding grain name with each switch.
Long press the "variety" button for 3 seconds to resume P0 mode.Single measurement: insert the metal probe into the object to be measured, and the screen will display the value. When the voice broadcast ends, it means the single measurement has been completed.
3. Backlight:
After powering on the machine, when there is no measurement, "Lo" will be displayed under low battery mode, and the

backlight will be off; During the process of measurement or setting, the backlight will be automatically open.
4. Voice type:
Short press the "voice" button to switch in turn: d1=the number of moisture content, d2=high moisture content, d3=no sound/mute, d4=didi, press the "on/off" button after setting to save the settings and then start measurement.
d1 mode: if the set limit value is exceeded, the current grain name + measurement value will be broadcast, e.g. if P0 Paddy mode is currently selected while the set limit value is 10% and the measured water content is 23.5%, then "Paddy moisture content 23.5" will be broadcast.
d2 mode: if the set limit value is exceeded, the current grain name + "moisture too high" will be broadcast, e.g. if P0 Paddy mode is currently selected while the set limit value is 10% and the measured water content is 23.5%, then "Paddy moisture content moisture too high" will be broadcast.
d3 mode:there is only a prompt sound when powering on or shutting down the machine and there will be no sound at other times.
d4 mode: if the set limit value is exceeded, there will be a "DiDi" sound.
Note: The broadcast grain name will be the name of the selected mode. This product can not automatically identify the type of measured grain.
5. Limit value setting:
Short press the "limit" button to set the moisture limit value, the default limit value is 10%; Setting range: 10%~40%. Long press the "limit" button for 2 seconds to restore the setting value of 10%. After setting, press "On/Off" button to save the setting and then start measurement.
6. Adjust the deviation:
After the control calibration of the oven method, short press the "Adjust" button to adjust -3%~+5%. The default starting point is 0.0%. Short press the "Adjust" button once, the value will increase/decrease by 0.5% (first increase and then decrease); When the value increases to +5, short press the "Adjust" button to return to 0.0%. Short press the "Adjust" button again, the value will decrease by 0.5% each time; after setting, press the "On/Off" button to save the setting and then start measurement.
7. Setting memory function:
After setting the parameters, even if the battery is removed later, these parameters will be saved when the power is turned on again.
8. Low battery alert:
When the battery is low, the product screen will display " ", and the battery is needed to be replaced.

Specific Declarations:
Our company shall not be liable for any derivative results of the product. We reserve the right to make changes to the product design and the content of the instruction manual without notice.