



G650i | Portable grain moisture and impurity analyzer



G650i is the state-of-the art in compact grain moisture and impurity testers. It consists of an electronic scale, thermometers and a capacitance meter. All measurement management is carried out by a state-of-the-art internal microprocessor. Besides measuring grain moisture accurately, quickly and safely, G650i also allows the percentage calculation of impurities and damaged grains through its built-in digital scale, by simply accessing the "Percentage" function. It also allows determining the hectoliter weight of the grains with a very simple operation through the "Density" function.

The Serial RS232C data interface enables complete reports to be issued with all measurement data, moisture (%M), impurities (%) or density (kg/hL).

The set of features of G650i makes this tester ideal for field work, "FOB purchases" and to monitor grain dryers.

Features

- Microprocessed, it measures the moisture and temperature percentage in up to 15 seconds, doing all the calculations automatically and indicating the final results, eliminating the use of tables, calculations and corrections.
- It performs the measurement without destroying the sample.
- Serial RS232C data interface. It can be connected to a printer or computer.
- It performs the calculations required for the grain classification, such as impurities, defects, moisture and hectoliter weight.
- It generates complete reports after each measurement, informing all collected data and the measurement performed. It issues calibration reports and about the equipment condition.
- It has a real-time clock with date and time, which are printed on the measurement report.
- All commands are performed with only five self-explanatory keys.
- Backlit alphanumeric display with texts which make the operations simple and intuitive.
- It performs self-calibration at every measurement in just four seconds, ensuring its reliability.
- With the "auto shut-off" function, after five minutes idle, G650i shuts off automatically to save power.
- Portable and adaptable to the power grid, G650i is powered by a 9 volt alkaline battery or adapter connected to the electric power, operating from 90 to 240 Volts. The battery charge indicator shows when the change is required. G650i can, optionally, be powered by a rechargeable battery.

What ensures G650i quality and accuracy?

Technology and scientific monitoring. The calibration curves for each type of grain are obtained based on the standard stove methodology, complying with Inmetro regulations. The scales contained in G650i are laboratory tested and validated annually by our researchers and specialized technicians to ensure the accuracy of results in the grain moisture measurement.

Selection of Calibration Curves via Internet

All grain calibration curves are available on www.moisturetester.com.br. We can select, update and create new curves for G650i through this site. In addition to the calibration curves, we can also update G650i *firmware* thus ensuring that the tester is always updated with the latest improvements developed by Gehaka.

Technical specifications

Number of scales	72
Measurement range	According to the scale
Division	0,1 %
Moisture reading accuracy	± 0.25 % relative to the stove
Sample weight to measure the moisture	80 g < weight < 180 g according to the product
Sample weight for impurity calculation	Up to the capacity of the weighing vat
Scale	1,000 g x 0.1 g Combined Error of ± 0.2 g
Thermometer	0° to 100 °C (with ± 0.3 °C accuracy)
Data interface	Bidirectional, Serial RS232C
Tester net weight	3,90 Kg
Dimensions	345 x 300 x 168 mm (W x H D)
Power supply	9 Volt Alkaline Battery or 90 to 240 VAC automatic network adapter
Carrying case	It houses the unit and its accessories
Printer (optional)	Thermal

The calibration curves of the moisture testers manufactured by Gehaka are checked annually with thousands of grain samples collected throughout the national territory over successive crops.

 Gehaka technical assistance network all over the national territory.

Included accessories

- 9 Volt Alkaline Battery
- 90 to 240 Volt automatic AC/DC adapter
- Nylon carrying case
- Instruction manual

Gehaka grain moisture test laboratory is part of the RBLE - Brazilian Test Laboratory Network: Set of Laboratories accredited by the General Accreditation Coordination of Inmetro (Cgcre) for the execution of test services.



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