



Comastri Distribution
Prodotti e soluzioni per l'industria S.r.l

12/07/2025

ComastriDistribution

Phone: +390513510702

Mail: info@comastridistribution.com



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www.imada.it

FRTS 100N - Food texture analyzer

0074

Servicies

After sale servicies

Ordinary and extraordinary maintenance, installation, staff training, spare parts, calibration and calibration for measuring instruments.

The prices could be not always up to date and they don't take into account any promotional sale on the e-commerce.

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Product description

With Imada FRTS Food Texture Analyzer it is finally possible to digitize the consistency of foods and study the characteristics of foods such as stiffness, viscosity, elasticity, adhesiveness and much more, with extreme simplicity at a very advantageous price. The instrument is a compact, lightweight and easily transportable analyzer. The ease of use and the management of data via software make it an ideal solution for process control and essential in research and development, quality control and laboratories of universities and research institutes. It satisfies the most varied requests in the field of textural analysis. Provides quantitative, repeatable and accurate data in a large and wide range of applications in the food and pharmaceutical and cosmetic fields.

Standard Features

- To test the consistency of foods
- Simple to use and quick to clean
- Intuitive and clear touch screen
- Three Procedures: Food, Standard, Program
- Test library ready to use
- Insertion of 1 own test on request
- Save max. 6 test conditions among the favorites
- Capacity: 100N

- Sample rate of 1000 Hz
- Easy management and data analysis
- Save data on pendrive or software
- Software included for data processing
- Force / time and force / displacement graphs
- USB outputs, USB flash drive
- Made of stainless steel
- Wide range of test devices

Analisi textures

EASE OF USE - The system is designed to be easy to use and easy to clean. A magnetic and waterproof touch screen console makes it ideal in production line as in the laboratory.

PRESETS - The tester has many pre-set measurement conditions to facilitate the operator. On the touch screen, first select the food or standard and then perform the measurement. You can use presets and make some changes or create your own program.

DATA MANAGEMENT AND ANALYSIS - Software for data processing in real time, with graphic display of the test and the possibility of overlapping up to 5 curves, or saving on pendrive and subsequent analysis. The software draws graphs F / t and F / s and calculates different types of textures.

Display and functions

The control console is equipped with a large touch screen display also visible in poor light conditions, a button for starting and stopping the test, and two buttons for controlling movement (traction and compression). Laterally, a USB input allows the insertion of a USB pendrive for recording test data and subsequent analysis using the included software. The display is navigable and allows the operator to easily set the operating mode of the test. The main menu displays 4 sections: "Food / Standard", to choose the type of test according to the type of food or according to one of the standards present in the library (you can make changes to the presets and



save them in the favorites), "Programmable Mode "to manually set their test conditions," Manual Mode "to launch a test using the movement commands present at the console, and finally" Favorite "to recall one of the 6 tests saved as favorites and start the test at the pressure of a button. Once the desired test condition has been chosen and the appropriate device for the food to be tested is inserted, the test can be launched simply by pressing the start button. At the end of the test the test results will be shown on the display. The system is equipped with the "Start-trigger" function, which allows you to start the measurement when a preset value is reached, and the "Overload prevention" function.

Design

FRTS is a compact, light and minimal designed textile tester designed to offer a compact and easily transportable solution. They consist of a base on which is placed a liquid collection tray in stainless steel and a vertical column upright with painted covering panels. Inside the upright there are two guide rods and a worm screw that draws the moving crosspiece with constant movement controlled by an adjustable speed motor. The support plane on which the samples to be tested are positioned on the mobile crosspiece. Above the plane, on the measuring axis a through hole allows insertion and locking of the various test devices. Inside the instrument are inserted the force measurement sensor and an encoder for detecting the displacement. On the upper part of the instrument the emergency button is positioned, while the operating commands of the instrument are controlled through an innovative console with a touch screen system and magnetic anchor.

Data acquisition software

With the supplied software it is possible to analyze with extreme precision the data of each test in real time through force-time or force-displacement graphs and display at the end of the test the results that will indicate the various structural characteristics such as firmness, adhesion , the strength of cohesion, consistency, elasticity, rubberiness, hardness and many others. The software also allows to start automatically the graphic representation of the test at the start of the measurement and to superimpose up to 5 graphs for the detailed analysis of the properties of the food. The high sampling frequency and the accuracy of the measuring sensor guarantee precise and reliable results. Data can be printed or exported to CSV spreadsheets to allow further processing of data.

Accessories

Graphics software

Power unit

USB cable

USB pendrive

4 types of clamps

Fuse

Certificate of inspection



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General Features

Dimensions	Max. sample height: 70 mm	Dimensions	H:185 mm L:300 mm P:400 mm
Weight	Body: 7.7kg, console: 0.8kg	Weight	Corpo: 7.7kg
Weight	console: 0.8kg	Resolution	100N
Accuracy	±5% F.S. ± 1 digit	Data logging	Sampling frequency: 1000 Hz
Temperature	From 0°C to +40°C	Connettività	USB, USB flash drive
Connettività	USB	Connettività	USB flash drive
Measurements Units	N / Kgf / lbf / mm / inch	Humidity	20-80% RH
Capacity	Max. 100N	Display	4-digit, 0.001mm (minimum resolution)
Display	4-digit	Display	0.001mm (minima risoluzione)
Speed	From 0.1 to 10.0 mm/sec	Functions	Three types of measurement procedures ("Food/Standard", "Program", "Manual"). Add "Favorites" for up to 6 test conditions. Test start with trigger value (trigger). Overload prevention function
Functions	Tre tipi di procedure di misurazione ("Food/Standard"	Functions	"Programma"
Functions	"Manuale"). Aggiungi "Favoriti" per max.6 condizioni di prova. Avvio prova con valore di innesco (trigger). Funzione prevenzione sovraccarichi	Functions	"Manuale"). Aggiungi "Favoriti" per max.6 condizioni di prova. Avvio prova con valore di innesco (trigger). Funzione prevenzione sovraccarichi

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