

RFM100CFR

CATALOGUE 2024-25



Touch Screen Automatic Digital Refractometer RFM100CFR

SALIENT FEATURES

- ◆ GMP / GLP / FDA 21CFR PART 11
- ◆ Windows Operating System
- ◆ Inbuilt Software, No need Separate PC
- ◆ Multiple measurement modes
- ◆ Easy to clean Prism, It is made of artificial sapphire,
- ◆ 5 Digit Decimal point Precision
- ◆ 16GB data Storage
- ◆ In Built Peltier for Temperature Control
- ◆ Fast measurement, needs a small amount of samples.
- ◆ 8" Colour Touch Screen Display
- ◆ High-resolution CCD detection system
- ◆ Electronic Signature, Password Management

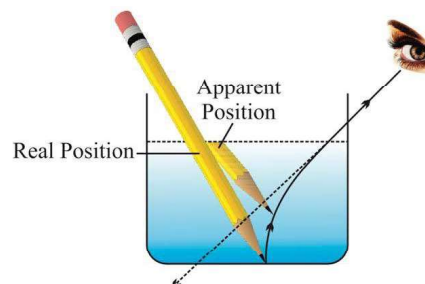
About 21CFR Part 11

21CFR Part 11 defines the requirements for submitting documentation in electronic form and the criteria for approved electronic signatures

About Refractive Index

When light passes from one medium to another, the speed at which the light travels will change depending on the parameters of the materials.

This principle can be observed when looking at a pencil in a beaker, as shown in the photo.



The ratio of the change in the speed of light is called the refractive index, and instrument that measure it is called refractometer. The refractive index of a liquid is related to its concentration and so a refractometer can display the concentration in suitable units, such as °Brix (sucrose), glucose, etc



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Automatic Digital Refractometer Touch Screen

HSN Code : 90275020

Model	RFM100CFR
Make	LABMAN
Operating system	WINDOWS
Software	In Built
Refractive index measurement range (nD)	1.30000-1.70000
Measurement error (nD)	±0.0002
Measurement resolution (nD)	0.00001
Measurement accuracy (nD)	±0.00001
°Brix Measuring range(°BX)	0-100%
Measurement error (°Brix)	±0.1%
Measurement resolution (°Brix)	0.01%
Measurement accuracy (°Brix)	±0.01%
Temperature Control mode	Peltier(In-Built)
Temperature display range	0°C-100°C
Temperature control range (at 20°C room temperature)	5°C-85°C
Temperature resolution	0.01°C
Temperature control accuracy (semiconductor Peltier)	±0.02°C
Display	8" colour Touch screen
Compliance with Regulations	GMP / GLP/ FDA 21CFR PART11
Memory	16GB
Prism	Sapphire Type
Electronic signatures	Yes
Built-in measurement modes/methods	12 Types
Interface	USB Keyboard / Mouse / Ethernet / Optional WLAN
Power supply	AC 220V,50/60Hz
Packing Dimensions (L x W x H) mm	430 × 260 × 150
Net Weight & Gross Weight	5kg & 10kg

★ Specifications are subject to change without notice.

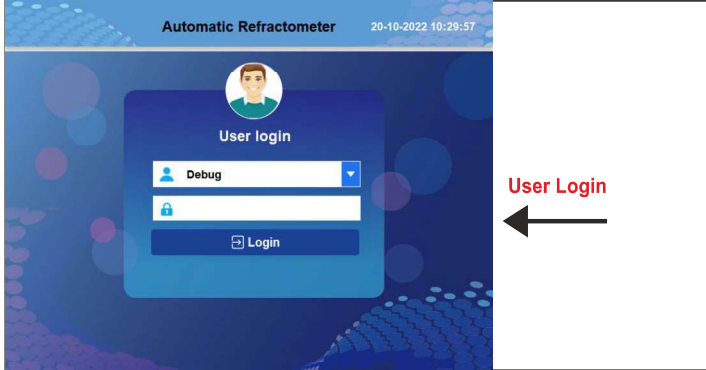
STANDARD ACCESSORIES : Main instrument, Fuse, SS Knob for Sample Chamber, Power Cable, Touch Pen, Test Certificate

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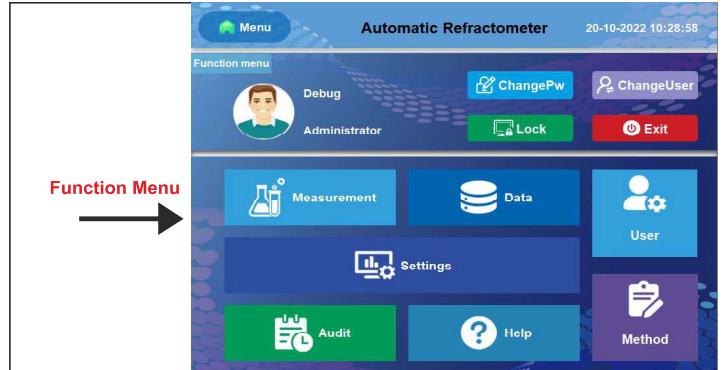
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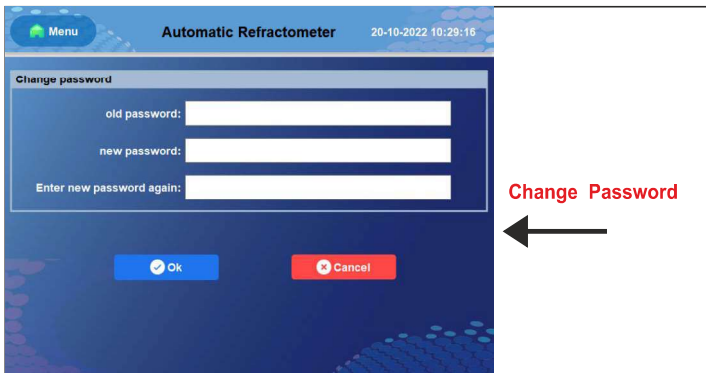
Automatic Digital Refractometer Touch Screen RFM100CFR Function & Features



User Login



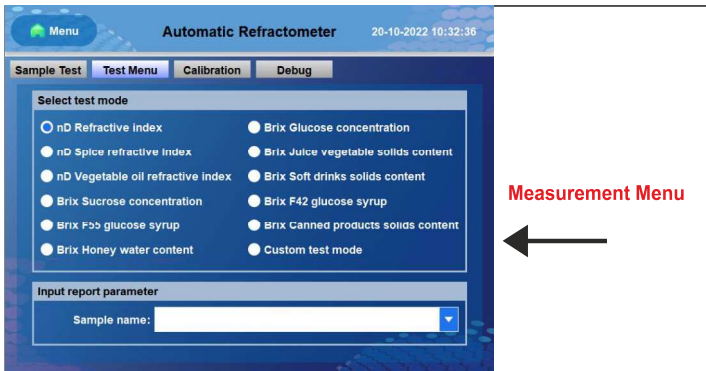
Function Menu



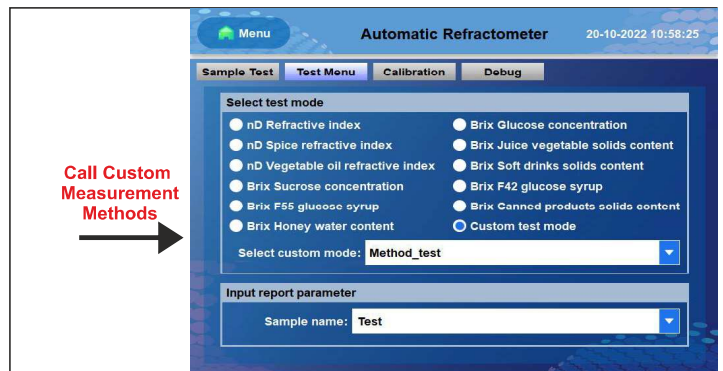
Change Password



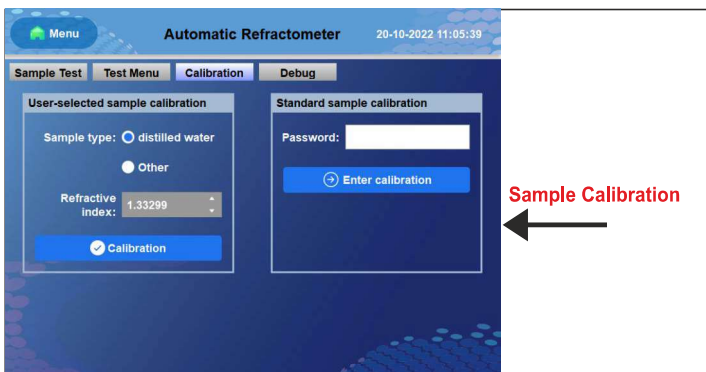
Temperature Control Completed



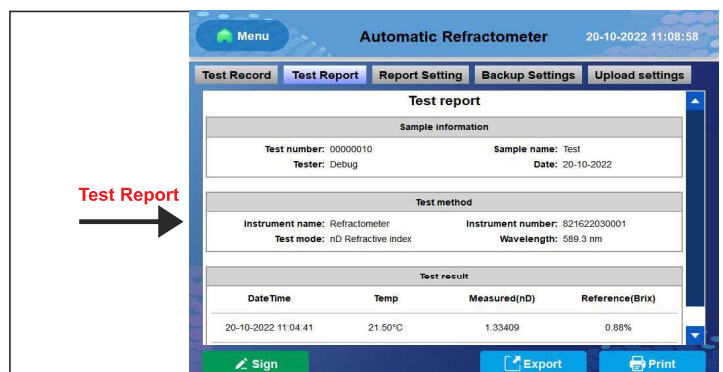
Measurement Menu



Call Custom Measurement Methods



Sample Calibration



Test Report

Automatic Digital Refractometer Touch Screen RFM100CFR Function & Features

Electronic Signature

Create nD Coefficient Method

Create Brix°C Coefficient Method

Create Honey Moisture Content Method

Create Brix Table Method

View Measurement Method

Password Policy

Operation Details

Item	Before modification	After modification
Minimum length	6 characters	6 characters
Valid date	90 days	90 days
History management times	5	5