



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

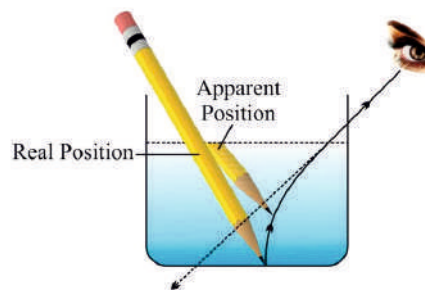
About 21CFR Part 11

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



E - Catalogue

Automatic Digital Refractometer Touch Screen

HSN Code : 90275020

SPECIFICATIONS

Model	RFM100CFR
Make	LABMAN
Operating System	WINDOWS
Software	Inbuilt
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)	±0.1%
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
Prsim	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	570 x 470 x 300mm
Gross Weight	9kg

★ Specifications are subject to change without notice.

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

Automatic Digital Refractometer Touch Screen RFM100CFR Function & Features

	<p>User Login</p> <p>←</p>	<p>Function Menu</p> <p>→</p>									
	<p>Change Password</p> <p>←</p>	<p>Temperature Control Completed</p> <p>→</p>									
	<p>Measurement Menu</p> <p>←</p>	<p>Call Custom Measurement Methods</p> <p>→</p>									
	<p>Sample Calibration</p> <p>←</p>	<p>Test Report</p> <p>→</p>	<table border="1" data-bbox="1023 1743 1510 1816"> <thead> <tr> <th>DataTime</th> <th>Temp.</th> <th>Measured(nD)</th> <th>Reference(Brix)</th> </tr> </thead> <tbody> <tr> <td>20-10-2022 11:04:41</td> <td>21.50°C</td> <td>1.33409</td> <td>0.88%</td> </tr> </tbody> </table>	DataTime	Temp.	Measured(nD)	Reference(Brix)	20-10-2022 11:04:41	21.50°C	1.33409	0.88%
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Automatic Digital Refractometer Touch Screen RFM100CFR Function & Features

Electronic Signature

←

Create Brix^oC Coefficient Method

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Create Brix Table Method

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Password Policy

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Instrument name	Instrument number	821622030001	
Operating time	20-10-2022 11:17:48	Operator	Debug
Action	Set password policy	Object	password policy