

Infitek

REFRACTOMETERS

ABBE Refractometer
Automatic Refractometer
Portable Refractometer



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VERSION.2025

ABBE Refractometer

RFT-A1 RFT-A2



Specifications

Model	RFT-A1	RFT-A2
Measuring range	Refractive index(nD): 1.3000-1.7000	Brix: 0-95%
Accuracy(nD)	±0.0002(Estimate Reading)	±0.0003(Estimate Reading)
Average dispersion indication	±0.0005	
Temperature display	Digital thermometer	
Observation mode	Monocular	Binocular
Weight (Gross)	3kg	4kg
Overall Dimensions	270mm×180mm×370mm	240mm×200mm ×390mm

Features

- Measurement of refractive index nD, average dispersion nF-nc of transparent or translucent liquid and solid substances, and mass fraction (Brix) of cane sugar solution.
- Widely used in the field of sugar, pharmaceutical, beverage, petroleum, food, chemical industries as well as research institutes and educational department.
- Prism is made of hard glass, abrasion resistance.
- Visual aim, optical index-plate reading.
- Easy and reliable.

Digital ABBE Refractometer

RFT-A3S RFT-A2S



Specifications

Model	RFT-A3S	RFT-A2S
Measuring range	Refractive index(nD): 1.30000-1.72000	Refractive index(nD): 1.3000-1.7000
	Brix: 0-100%	Brix: 0-100%
Measuring Accuracy	Refractive index(nD): ±0.0002	Refractive index(nD): ±0.0002
	Brix: ±0.1%	Brix: ±0.1%
Resolution	Refractive index(nD): 0.00001	Refractive index(nD): 0.0001
	Brix: 0.01%	Brix: 0.1%
Measuring methods	8 types	/
Temp.display range (Min.0.1℃)	-20-120℃	0-50℃
Display	Color touch screen	LCD
Interface	RS232, USB	RS232
Date Storage	500 sets	/
Power supply	220V±22V, 50Hz±1Hz, 30w	
Overall dimensions	370mm×240mm×470mm	
Weight (Gross)	10 kg	

Features

- Measurement of refractive index nD of transparent or translucent liquid and solid substances.
- Measurement of the Brix of sugar solution.
- Automatic correction of the effect of temperature on the Brix.
- Prism made of hard glass.

Automatic ABBE Digital Refractometer

RFT-A733 RFT-A731



Specifications

Parameters/Model	RFT-A733	RFT-A731
Measuring range	Refractive index(nD): 1.30000-1.70000	
	Brix: 0-100%	
Measuring accuracy	Refractiveindex(nD): ±0.0002	
	Brix: ±0.1%	
Resolution	Refractive index(nD): ±0.00001	
	Brix: ±0.01%	
Temp.control mode	Peltier(Built-in)	/
Temp.display range	0-90℃	/
Temp.control range	10-60℃	/
Temp.control accuracy	±0.1℃	/
Prism	Hard glass	
Data storage	1000 sets	
Display	7 inch color touch screen	
Interface	RS232, USB, U Disk	
Power supply	220V±22V, 50Hz±1Hz, 50w	
Overall dimensions	500mm×330mm×220mm	
Weight(Gross)	9kg	



Full automatic measuring, high resolution CCD detection system.



LED light source that lasts over 100000 hours.



Temperature correction function to avoid human error.

Have the function of temperature display, automatic correction and saving the date.



Touch Screen.



Multiple measuring methods: F42 fructose corn syrup, F55 fructose corn syrup concentration, Glucose concentration, Sucrose concentration, Solid content (juice vegetables, canned products, soft drinks), Honey water content, nD20 and user-defined formula.

Portable refractometers, Brix meter, RFT-P Series

RFT-P32 RFT-P50 RFT-P62 RFT-PS1



Features

Portable refractometers are very commonly used which can be used for low, middle, and high resolution Brix concentration. The low range can be used for high-precision measurement such as fruit juice, cola and most kinds of beverage. The middle range can be used for concentrated fruit juice, canned food, sugar solution detections, sauce, ketch up, seasoning and many kinds of industry fluids. The high range can be used for use with food products of high sugar content such as liquid sugar, honey, etc

They can be used for industry fluid testing, such as for vegetable oils, industry, and many other chemical liquids or laboratory use fluids. It provides a fast and accurate way to test the ratio and concentration in water soluble cutting oil and many other industries fluid.

Specifications

	Model	Range	Minimum Scale
Brix	RFT-P32	0~32%	0.2%
	RFT-P50	0~50%	0.5%
	RFT-P62	28~62%	0.2%
Salinity	RFT-PS1	0~100‰ Salinity	1‰
		1.000~1.070	0.005
		0~10% Brix	0.1%

Model	RFT-P Series
Dimensions	155*25*40mm
Net weight	160g
Package Dimension(W*D*H)(mm)	280*220*110
G.W.(kg)	0.6

Portable Digital Refractometer, RFT-PD Series

RFT-PD85 RFT-PD92 RFT-PDHN1 RFT-PDHN2 RFT-PDA1

Features

- LCD large screen digital display;
- With automatic temperature compensation function;
- The number of uses can reach more than 10,000 times;
- With automatic shutdown power saving function;
- Ergonomic design, environmentally friendly and durable materials;
- Temperature display: Celsius/Fahrenheit conversion;
- Power supply : 2×AAA(1.5V)



Specifications

Model	Scale	Range	Min. reading	Accuracy
RFT-PD85	Brix (%)	0~85%	0.1	±0.5
	Refractive Index	1.3330~1.5100	0.0001	±0.0005
RFT-PD92	Brix (%)	58~92%	0.1	±0.2
	Refractive Index	1.4370~1.5233	0.0001	±0.0003
RFT-PDHN1	Brix (%)	58~92%	0.1	±0.2
	oBe'	38~43	0.1	±0.2
	Water (IHC2002)	13~25	0.1	±0.2
	Refractive Index	1.4370~1.5233	0.0001	±0.0003
RFT-PDHN2	Brix (%)	58~92%	0.1	±0.2
	oBe'	38~43	0.1	±0.2
	Water (GB/T 18796~2012)	17~27	0.1	±0.2
	Refractive Index	1.4370~1.5233	0.0001	±0.0003
RFT-PDA1	Salinity	0~28%	0.1	±0.2
	Refractive Index	1.3330~1.3900	0.0001	±0.0003

Portable Digital Refractometer (Waterproof) RFT-PD-F Series

RFT-PD85F RFT-PD92F RFT-PDS1F RFT-PDHN1F RFT-PDA1F



Features

- F series instruments have IP65 grade water and dust proof certification;
- Large TFT backlight color screen
- With automatic temperature compensation function;
- The number of uses can reach more than 10,000 times, with automatic shutdown power saving function;
- Ergonomic design, environmentally friendly and durable materials;
- Temperature display: Celsius/Fahrenheit conversion;

Specifications

Model	Scale	Range	Min. reading	Accuracy
RFT-PD85F	Brix (%)	0~85%	0.1	±0.5
	Refractive Index	1.3330~1.5100	0.0001	±0.0005
RFT-PD92F	Brix (%)	58~92%	0.1	±0.2
	Refractive Index	1.4370~1.5233	0.0001	±0.0003
RFT-PDHN1F	Brix (%)	58~92%	0.1	±0.2
	oBe'	38~43	0.1	±0.1
	Water (IHC2002)	13~25	0.1	±0.1
	Refractive Index	1.4370~1.5233	0.0001	±0.0003
RFT-PDA1F	Salinity	0~28%	0.1	±0.2
	Refractive Index	1.3330~1.3900	0.0001	±0.0003
RFT-PDS1F	Brix (%)	0~35%	0.1	±0.2
	Salinity	0~28%	0.1	±0.2
	Refractive Index	1.3330~1.3900	0.0001	±0.0003