

Refractometer



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

3002S ABBE Digital Refractometer



►► Characteristics

- Measurement of refractive index nD of transparent or translucent liquid and solid substances.
- Measurement of the Brix of sugar solution.
- Visual aim and LCD display
- Automatic correction of the effect of temperature on the Brix.
- Prism made of hard glass
- RS232

►► Specifications

	2002S
Measurement range	
Refractive index nD	1.3000-1.7000
Dissolved Solids Brix	0-100%
Accuracy	
Refractive index nD	± 0.0002
Dissolved Solids Brix	± 0.1%
Temperature Range (Min. 0.1° C)	0-50° C
Weight (Gross)	12 kg
Overall Dimensions	370mm x 240mm x 470mm

3000ZT Automatic ABBE Digital Refractometer

3000ZL Automatic ABBE Digital Refractometer



►► Characteristics

- Full automatic measuring, avoid personal error
- Have the function of temperature display, automatic correction and saving the date
- Thermostatical control, temperature automatic correction and saving the data (3000ZT)

►► Specifications

	3000ZT	3000ZL
Measurement range	nD: 1.30000-1.70000 Brix: 0-100%	nD: 1.30000-1.70000 Brix: 0-100%
Measuring resolution	nD: ± 0.00001 Brix: 0.01%	nD: ± 0.00001 Brix: 0.01%
Measuring accuracy	nD: ± 0.0002 Brix: $\pm 0.1\%$	nD: ± 0.0002 Brix: $\pm 0.1\%$
Test mode	8	8
Thermostatical control range	Room temperature $\pm 10^{\circ}\text{C}$	
Temperature measurement resolution	0.1°C	0.1°C
Accuracy	0.5°C	0.5°C
Interface	RS232/USB	RS232/USB
Display	7 inch color touch screen	7 inch color touch screen
Prism	Sapphire glass	Hard glass
Weight	3.5kg	3.5kg

Refractometer ABBE “3000WAJ”

LCD DIGITAL THERMOMETER BUILT-IN.

►► Applications

Ideal for measuring the refractive index n_D of liquids, solids and sugar concentrations (0 - 95% = n_D 1.333-1.531). Indispensable instrument for industrial chemistry, petroleum, pharmaceutical, food oils and fats, sugars, universities etc.



►► Features

- Telescopic system X2 magnification.
- Eyepiece with dioptric correction.
- Connection for external water bath.
- Thermometer 0-70 °C. To see the sample temperature.
- Robust metallic construction.
- Weight: 2.6 Kg.
- Measurements: 240 mm high x 100 mm wide x 200 mm depth.
- **Measuring range:**
 - Refraction index n_D : 1300 - 1700.
 - Brix: 0 - 95%.
- **Measuring definition:**
 - Refraction index n_D : 0.0005.
 - Precision n_D : ± 0.0002 .
 - Brix: 0.25%. Precision: $\pm 0.1\%$.
- **Part No. 5901008**
 - Supplied complete with
 - Aluminium carry case,
 - 1 bottle of Naphthalene Bromide,
 - 1 calibration standard,
 - 1 screwdriver and dust cover.

3000 WYA ABBE Refractometer

3000 WYA-2W ABBE Refractometer



►► Characteristics

- Measurement of refractive index n_D , average dispersion $n_F - n_C$ of transparent or translucent liquid and solid substances.
- Measurement of 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.
- Visual aim, optical index-plate reading.
- Easy and reliable.

►► Specifications 3000 WYA

- Refractive index n_D : 1.3000-1 7000
- Accuracy: ± 0.0002
- Dissolved Solids Brix: 0-95%
- Weight (Gross): 3.5 kg
- Overall Dimensions: 270mm x 180mm x 370mm

►► Specifications 3000 WYA-2W

- Refractive index n_D : 1,3000-1,7000
- Accuracy: * 0.0003
- Dissolved Solids Brix: 0-95%
- Magnification of the telescope objectives: 2X
- Magnification of the reading objectives: 22X
- Weight (Gross): 4,5 kg
- Overall Dimensions: 240mm x 200mm x 390mm

3000 WZS Portable kefractometer



►► Characteristics

- 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, tomato juice, cola and most kinds of beverage.
- The middle range can be used for concentrated fruit juice, canned food, sugar solution infusions, sauce, ketch up, seasoning and many kinds of industry fluids.
- The high range is suited 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 fluid.

►► Specifications 3000 WZS

	Model	Range	Minimum Scale
Brix	3005 WZS	0-5%	0.1%
	3010 WZS	0-10%	0.1%
	3018 WZS	0-18%	0.1%
	3020 WZS	0-20%	0.1%
	3032 WZS	0-32%	0.2%
	3050 WZS	0-50%	0.5%
	3060 WZS	0-60%	0.5%
	3062 WZS	28-62%	0.2%
	3092 WZS	45-82%	0.5%
	3080 WZS	58-92%	0.2%
	3090A WZS	0-5%	0.5%
Honey	3003N WZS	58-92%Brix	0.5%Brix
		38-43oBe	0.5oBe
		12-27% water	1% water
Salinity	3001 WZS	0-100%	1%
		1.000- 1.070	0.005
	3002 WZS	0-28%	0-2%
	3003 WZS	0-35%	0-5%
	3004 WZS	0-40PPT	1%
	3022 WZS	0-28 Salinity	0.2%
		0-32% Brix	0.2%

3000 WZB Portable Digital Refractometer



►► Characteristics

- Temperature measurement range: 0°C-40°C(32 °F - 104 °F)
- Precision of measurement temperature: $\pm 0.5^{\circ}\text{C}$ (1 T)
- Dimension:135 x 65 x 40mm
- Net Weight:200g
- Power Supply: 2 x AAA (1.5V)
- Wide choice-over 20 models available
- Automatic temperature compensation
- Automatic power management

►► Specifications (WYA-2W)

Model	Scale	Range	Divison	Accuracy
3035 WZB	Brix (%)	0-35%	0.1	± 0.2
	Refractiv Index	1.3330-1.3900	0.0001	± 0.0003
3045 WZB	Brix (%)	0-45%	0.1	± 0.2
	Refractiv Index	1.3330-1.4098	0.0001	± 0.0003
3065 WZB	Brix (%)	28-65%	0.1	± 0.2
	Refractiv Index	1.3770-1.4535	0.0001	± 0.0003
3092 WZB	Brix (%)	58-92%	0.1	± 0.2
	Refractiv Index	1.4370-1.5233	0.0001	± 0.0003
3001 WZB	Brix (%)	58-92%	0.1	± 0.2
	°B' e	38-92%	0.1	± 0.1
	Water (IHC2002)	13-25	0.1	± 0.1
	Refractiv Index	1.4370-1.5233	0.0001	± 0.0003

3002 WZB	Brix (%)	58-92%	0.1	±0.2
	°B' e	38-43%	0.1	±0.1
	Water (IHC2002)	17-27	0.1	±0.1
	Refractiv Index	1.4370-1.5233	0.0001	±0.0003
3001 WZB	Salinity	0.28%	0.1	±0.2
	Refractiv Index	1.3330-1.3900	0.0001	±0.0003
3001S WZB	Brix (%)	0.35%	0.1	±0.2
	Salinity	0.28%	0.1	±0.1
	Refractiv Index	1.3330-1.3900	0.0001	±0.1
3001N WZB	MASS S/W(%)	0.35%	0.1	±0.2
	VOL AP(%)	0.22%	0.1	±0.1
	Oe(Switzeriand)	0.150	1	±1
	KMW	0.25	0.1	±0.1
3002N WZB	MASS S/W(%)	0.35%	0.1	±0.2
	VOL AP(%)	0.22%	0.1	±0.1
	Oe(Germany)	0.150	1	±1
	KMW	0.25	0.1	±0.1
3003N WZB	MASS S/W(%)	0.35%	0.1	±0.2
	VOL AP(%)	0.22%	0.1	±0.1
	Oe(Switzeriand)	0.150	1	±1
	KMW	0.25	0.1	±0.1
3001R WZB	SERUM P. (g/dl)	1.000-1.050	0.001	±0.001
	URINE SP.G(cat)	0-12g/dl	0.1	±0.1
	Refractiv Index	1.3330-1.3900	0.0001	±0.0003
3002R WZB	SERUM P. (g/dl)	0.14g/dl	0.01	±0.1
	URINE SP.G(dog)	1.000-1060	0.001	±0.001
	Refractiv Index	1.3330-1.3900	0.0001	±0.0003
3003R WZB	SERUM P. (g/dl)	0.14g/dl	0.01	±0.1
	URINE SP.G(cat)	1.000-1060	0.001	±0.001
	Refractiv Index	1.3330-1.3900	0.0001	±0.0003
3001L WZB	Alcohol	0.60% v/v	0.1	±0.3
3002L WZB	Alcohol	0.60% w/w	0.1	±0.5
3005L WZB	Methanol	0.60% w/w	0.1	±0.5

3001K WZB	Soybean milk concentration	0.25%	0.1	±0.3
3001C WZB	Glycol	32-50°F	1.01°F	±1°F
	Propanediol	32-50°F	1.01°F	±1°F
	Battery fluid	1.00-1.50sg	1.01sg	±0.01sg
	Clearance	0--40°F	0--1°F	±1°F
3002C WZB	Glycol	0--50°F	1.01°F	±1°F
	Propanediol	0--50°F	1.01°F	±1°F
	Battery fluid	1.00-1.50sg	1.01sg	±0.01sg
	Clearance	0--40°F	0--1°C	±1°F
3003C WZB	Glycol	0.80%	0.1%	±0.3%
	Propanediol	0-70%	0.1%	±0.3%

►► Servicing, Validation, Trainings and Preventive Maintenance :

Servicing	: We have team of service engineers who can attend to any make of instrument promptly @the most affordable cost.
Trainings	:We also take up preventive maintenance to reduce downtime of instrument's Trainings.
AMC's/CMC	: We offer user training both in-House and at customer sites on instrument principles, operations, troubleshooting.
Validations	: We have protocols for carrying out periodic Validations as per GLP/ GMP/USFDA norms.
Instruments	: We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



►► About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

►► Our Products & Technologies



UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Partical
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

►► Regulatory compliances



►► Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

►► Reach us @



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