

Automatic Digital Refractometer



A refractometer measures how light bends in a liquid (RI) and converts this into concentration values like Brix for practical quality control and analysis.

RI is a fundamental optical property and is used to identify substances, check purity, and determine concentration.

Digital Automatic Refractometer DAR-100 delivers fast, accurate, and reliable refractive index and concentration measurements with fully automatic operation.

Designed for ease of use, it features a clear digital display, minimal sample requirement, and excellent repeatability.

Ideal for applications in pharmaceuticals, food & beverage, chemicals, sugar, and research laboratories, it ensures consistent results while reducing operator error and analysis time.

SALIENT FEATURES:

- 7-inch intuitive touch color screen
- Windows Operating System
- Inbuilt Software, so no need of PC
- High quality Sapphire prism
- LED cold light source replaces traditional sodium light resulting in a long stable life
- High-resolution linear CCD detector
- With custom method library
- User Management & Audit aaTrail
- GLMP/GMP/21CFR compliant
- Multi-user with password protection

SPECIFICATIONS:

Model	DAR-100	DAR-200
Make	Galaxy	Galaxy
Display	7 inch Touch Screen	7 inch Touch Screen
Software	In-built	In-built
Measuring Range	nD: 1.3000 to 1.7000	nD: 1.30000 to 1.70000
	Brix: 0 to 100%	Brix: 0 to 100%
Measuring Resolution	nD: 0.0001	nD: 0.00001
	Brix: 0.01 %	Brix: 0.01 %
Measuring Accuracy	±0.0002	±0.0002
	±0.1 %	±0.1 %
Temperature display range	0 to 50°C	0 to 100°C
Temp. Control	N.A	Peler (In-Built)
Temp. Control Range	N.A	5 to 90°C
Temp. Control Accuracy	N.A	0.01°C
Memory	32 GB	32 GB
Interface	USB, RS232, SD card, U disk	USB, RS232, SD card, U disk
Electronic Signature	Yes	Yes
Compliance	GLP/GMP/21CFR	GLP/GMP/21CFR
Audit Trail	Yes	Yes
User Management	Yes/4-level authority management	
File Export Type	PDF & Excel	PDF & Excel
Power Supply	AC 220V / 50 Hz	AC 220V / 50 Hz
Dimensions & Weight	360 x 300 x 155 mm & 5 kgs	360 x 300 x 155 mm & 5 kgs

STANDARD

- Power Adapter

ACCESSORIES:

- Instruction Manual