

KERN ORL 94LM

Digital refractometer with pre-installed scales for refractive index measurements and the food application area

KERN®

Article codes, product groups & Status information

Model article-code	ORL 94LM
Model-Serie	ORL-B
Assortment	Microscopes & Optical Metrology
Product Type	Refractometers
Product group	Digital refractometers
Product usage type	Main article
EAN code (Model)	4045761489455
Planned start date	2025-2HJ
Customs tariff number	90275000
CE Label	Yes
Country of Origin	CN

Technical data - Primary

Scales	Refractive index Brix Fructose (Fruchtzucker) Glucose (Traubenzucker) Laktose (Milchzucker) Maltose (Malzzucker) Dextran Salt (NaCl) Salz (NaCl) % spec. gravity
Scale Range	1,3330 nD - 1,5290 nD 0 % - 94 % 0,0 % - 68,9 % 0,0 % - 59,9 % 0,0 % - 16,5 % 0,0 % - 15,6 % 0,0 % - 10,6 % 0,0 % - 28,0 % 0 % - 280 ‰ 1,000 sg - 1,220 sg
ATC	Yes

Technical data - Construction

IP Protection	IP43
Type	Desktop refractometer
Display scale	Digital
Auto-Off	3 min
Prism material	Sapphire
Prism cover lid	Yes
Dimensions (W×D×H)	180×100×55 mm

Technical data - Display

Color display	Yes
---------------	-----

Technical data - Power supply

Power supply kind	USB including power supply
Input Voltage	100-240V AC 50/60Hz 0,35A
Power Plug	USB-B
Protection Class	Class III - Low voltage
Cable attachment	Removable
Battery charger	Yes
Battery compartment	Internal - with lid
Interfaces	USB 2.0

Technical data - Measuring system

Measuring method	Total reflection
Measuring Temp min	0 °C

KERN ORL 94LM

Digital refractometer with pre-installed scales for refractive index measurements and the food application area



Measuring Temp max	40 °C
Readout	0,0001 nD 0,1 % 0,1 % 0,1 % 0,1 % 0,1 % 0,1 % 0,1 % 1 ‰ 0,001 sg
Accuracy	0,0002 nD 0,1 % 0,2 % 0,2 % 0,2 % 0,2 % 0,2 % 0,2 % 2 ‰ 0,002 sg
Averaging measurment	Yes
Averaging measurement quantity	15

Technical data - Environmental conditions

Storage Temp Min	-5 °C
Storage Temp Max	40 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	300×150×100 mm
Gross weight	1,00 kg
Net weight	0,40 kg
Shipping method	Parcel service
Packaging component - by weight - cardboard	20 g
Packaging component - by weight - plastics	1 g
Delivery time	2 d

Technical data - Verification

WEEE	Yes
------	-----

Optional Services

ISO Calibration	961-290
-----------------	---------

Functions

Standard



Option

