KERN ORL 94IN

Digital refractometer with pre-installed scales for refractive index measurements and industrial/automotive applications



Article codes, product groups & Status information	
Model article-code	ORL 94IN
Model-Serie	ORL-B
Assortment	Microscopes & Optical Metrology
Segment	Refractometers
Product group	Digital refractometers
Product usage type	Main article
EAN code (Model)	4045761489448
Planned start date	2025-2HJ
Customs tariff number	90275000
CE Label	Yes
Country of Origin	CN

Technical data - Primary	
Scales	Refractive index Brix EG EG (%) EG G11/G12 (°C) PG PG (%) PG G13 °C CW BF
Scale Range	1,3330 nD - 1,5290 nD 0 % - 94 % -50,0 °C - 0,0 °C 0,0 % - 100,0 % -50,0 °C - 0,0 °C -60,0 °C - 0,0 °C 0,0 % - 100,0 % -50,0 °C - 0,0 °C -60,0 °C - 0,0 °C 1,000 kg/l - 1,500 kg/l
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

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Battery compartment	Internal - with lid
Interfaces	USB 2.0

Technical data - Measuring system

Measuring method	Total reflection
Measuring Temp min	0 °C
Measuring Temp max	40 °C
Readout	0,0001 nD 0,1 % 0,1 °C 0,1 % 0,1 °C 0,1 % 0,1 °C 0,1 °C 0,001 kg/l
Accuracy	0,0002 nD 0,1 % 0,5 °C 0,5 % 0,5 °C 0,5 % 0,5 °C 0,5 °C 0,005 kg/l
Averaging measurment	Yes
Averaging measurement quantity	15

Technical data - Environmental conditions

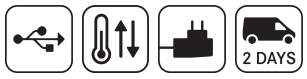
Storage Temp Min	-5 °C
Stotage Temp Max	40 °C

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

Functions

Standard



Option



Delivery time	2 d

Technical data - Verification

WEEE	Yes

Optional Services

ISO Calobration	961-290