OPTECHREFRACTOMETERS



Digital, benchtop and portable.



DIGITAL REFRACTOMETERS



Portable digital refractometers provide convenient, rapid and precise measurement of different parameters in aqueous solutions, avoiding the subjectivity when reading analogue scales.



Technical specifications:

Reading time: 3 seconds.

Working temperature: 0 to 40 °C.

Battery power: 9V.

Low battery indicator.

Automatic temperature compensation.

Auto-OFF after 2 minutes without use.

Dimensions: 185x105x50 mm.

Weight: 250 g.

MODEL	MEASUREMENT	COMMON APPLICATIONS	RANGE	PRECISION	CODE
RM 45	Brix Refr. Index	General purpose	0-45% 1.3330-1.4098	0.1% 0.00015	K71601
RM 65	Brix Refr. Index	General purpose	28-65% 1.3800-1.4535	0.1% 0.00015 nD	K71602
RM 92	Brix Refr. Index	General purpose	60-92% 1.4400-1.5230	0.1% 0.00015 nD	K71603
RMS 28	Percentage Refr. Index	Salinity concentration	0-28% 1.3330-1.3903	0.1% 0.00015 nD	K71604
RMC	Sp. Gravity, g/dl Refr. Index	Biological fluids: urine, serum	1.000 - 1.050 0-12 1.3330-1.3903	0.001 0.1 0.00015	K71605
RMW	Brix Percentage Oechsle Babo	Sugar content in wine/grape musts Probable alcohol in wine	0-35% 0-22 Vol 0-150° 0-25°	0.1% 0.1 Vol 1° 0.1°	K71606

BENCHTOP REFRACTOMETERS



Benchtop refractometers are high precision instruments capable of reading almost the whole Brix range (0 to 95%) and the corresponding refractive index, simultaneously. It is possible to perform measurements on liquids, semi-liquids, solids and powders. Both models feature inlet/outlet ferrules for thermostatic control of the sample.



PORTABLE REFRACTOMETERS



Simple, precise instruments for determining the concentration of different substances in aqueous solution, using the refraction principle. ATC (Automatic Compensation Temperature) system allows measurements to be taken at alternative temperatures to the standard 20 $^{\circ}$ C without re-calibration.

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MODEL	MEASUREMENT	COMMON APPLICATIONS	RANGE	PRECISION	ATC
RBC	Brix	Tomato, oily emulsions, etc	0-10%	0.1%	Yes
RLC	Brix	Fruit, fruit juices, milk	0-18%	0.1%	Yes
RZT	Brix	General purpose	0-32%	0.2%	Yes
RFC	Brix	Jam, tomato juice or paste	28-62%	0.2%	Yes
RPD	Brix	Jam, tomato juice or paste	45-82%	0.5%	Yes
RPU	Brix	General purpose	0-80% (2 ranges)	1%	No
RTS	Brix	General purpose	0-90% (3 ranges)	0.2%	No
RMM	Brix Baumé Water	Honey, jam	58-90% 38-43° 17-27%	0.5% 0.5° 1%	Yes
RPI	g/dl Sp. gravity Refr. Index	Biological fluids: urine, serum	0-12 1.000-1.050 1.3330-1.3600	0,2 0.002 0.00025	Yes
RSM	Percentage	Salinity concentration	0-100‰	1‰	Yes
RCS	Percentage	Salinity concentration	0-28%	0.2%	Yes
RPC	Percentage	Freezing point, electrolytes in batteries	-50/0 °C 1.10-1.40	5 °C 0.1	Yes
RGA	Percentage	Alcoholic solutions	0-80% Vol	I%Vol	Yes
RMA	Percentage Brix	Probable alcohol in wine Sugar content in grapes	0-25% Vol 0-40%	0.2% Vol 0.2%	Yes
RBB	Percentage Brix Baumé	Probable alcohol in wine Sugar content in grapes Density	0-25% Vol 0-40% 0-22°	0.2% 0.2% 0.2°	Yes
RMB	Percentage Baumé	Probable alcohol in wine Density	0-25% Vol 0-20°	0.2% Vol 0.2°	Yes
RBO	Oechsle Babo Brix	Sugar content in grapes	0-140° 0-25° 0-32%	l° 0.2° 0.2%	Yes



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