KEM

Portable Refractometer

RA-130

Compact size · Light weight · High precision

Wide measuring range

- Brix 0~85%
- Refractive index 1.3200~1.5000

Data storage

- 1100 measurement results

ISO 9001
for quality assurance

CE
marked for product safety

GLP/GMP
conformed

ISO 14001
environmental management systems

KYOTO ELECTRONICS

RA-130

Portable Refractometer

Features

1) Wide measuring range: :Brix 0～85%
:Refractive index 1.3200～1.5000

2) Data storage: Up to 1100 measurements results

3) Data transfer to your computer by supplied software via infrared port. Can also output via RS232C with RS converter for infrared (Option).

4) Can display measurement results in Refractive Index (RI), Temperature compensated RI, Brix % and the like.

5) Automatic data saving and Automatic data output can be chosen.

6) Three different sucrose conversion tables Brix and isomerized sugar HFCS42, HFCS55.

7) Data can be converted to user-defined concentration and the unit can be used as a concentration meter.

Specification

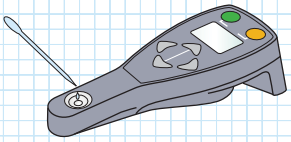
Type and model	RA-130 Portable Refractometer	
Measuring method	Optical detection of critical angle with Na-D line	
Measurement objects	Liquids such as water solution like fruit juices or soft drinks and organic solvents	
Measuring range	nD	1.32 ~ 1.50
	Brix	0 ~ 85%
	HFCS42	0 ~ 76%
	HFCS55	0 ~ 80%
Accuracy	nD	±0.0005
	Brix	±0.2%
	HFCS42 /55	±0.2%
Resolution	nD	0.0001
	Brix	0.1%
	HFCS42 /55	0.1%
Temperature range	10 ~ 40℃	
Display contents	Refractive index, Temp. comp. RI, Brix, HFCS42, HFCS55 and Temperature (℃/ ℉) Sample number, Data storage, Data output, Data deletion, Battery alarm and the like	
Temperature compensation	Up to 10 kinds of input for temperature compensation coefficients of measured samples and Compensation temperatures	
Data storage	1,100 measurement results	
External output	Computer or printer (either, not both) can be connected ・IrDA connection is standard supplied ・RS232C connection requires optional RS converter for infrared (#029-0007)	
Weight	Approx. 200g	
Power source	DC 3V (2 x 1.5V alkaline AAA dry cells)	
Battery life	60 hours (one measurement in one minute)	
Sampling method	Two ways selective – Dipping or Dripping method available	

※HFCS42 shows 42% fructose within isomerized sugar.

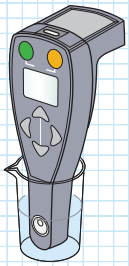
•Sample measurement

Either drip sample liquid onto the prism of RA-130 on a desktop or dip the prism into sample liquid

•Measure by dripping sample on the prism



•Measure by dipping the prism into sample liquid



•Communication function

Infrared port is standard equipped for easy data transmission (Conforming to IrDA ver. 1.2)

•Monitor display

So easy to see valuable and various information on graphic LCD

•Uses of RA-130

- ○Measurement of sucrose concentration of fruit juices
- ○Measurement of sucrose concentration of jam and honey
- ○Brix measurement on beverages
- ○Brix measurement on liquid seasonings
- ○Concentration control on pharmaceutical and medical liquid samples

Portable Density/Specific Gravity Meter

DA-130

KYOTO ELECTRONICS MANUFACTURING CO.,LTD.
Overseas Division：8-3 Niban-cho Chiyoda-ku TOKYO 102-0084, JAPAN Fax：+81-3-3237-0537, Phone：+81-3-3239-7333
URL : http://www.kyoto-kem.com