

Model: DA-130N, Portable Density/Specific Gravity Meter



Our ergonomic engineering has succeeded in offering incomparable features: lighter weight, abundant more data display and easier operations.

- Sampling volume and speed is single hand controlled. (Patent pending)
- Operative either by right or left hand, the cell can be viewed during measurement.
- Light weight allows operators to feel

tireless in the normal operations ● Viscous liquid up to ca2000 mPa^s can be sampled in ● The display shows density, temp. compensated density, specific gravity, temp. compensated specific gravity, Brix %, alcohol concentration, sulfuric acid concentration, API concentration, Baume degree, Plato & Proof degree & the like ● Graphic LCD can display temp. (C/ F), sample number, auto sensing oscillation stability, auto data saving, auto data output, data deletion, battery capacity indicator, & the like ● Life of battery is increased four times more than conventional makes, providing much longer operation time.

Specifications:

Type and model	DA-130 Portable Density/Specific Gravity Meter
Measuring method	Resonant frequency method
Measurement objects	Various kinds of liquid
Range	Density: 0.0000 to 2.0000 g/cm ³
Precision	±0.001 g/cm ³
Resolution	0.0001 g/cm ³
Temperature range	0 to 40.0°C
Storage temperature	-20 to 70°C
Display contents	Density, temperature compensated density, specific gravity, temperature compensated specific gravity, Brix %, alcohol concentration (wt%/vol%), sulfuric acid concentration, API degree, Baume degree, Plato & Proof degree and the like.
Temp. Compensation	10 kinds of coefficients per sample plus temperature to be corrected can be entered.
Auto calibration	Can store density of water at various degrees of temp. required for calibration of the measuring cell.
Sampling	By syringe type hand pump
Data storage	1, 100 samples
External output	IrDA for personal computer
Power source	Alkaline AAA dry cells (1.5V 2)
Battery life	Approx. 90 hours
Weight	Approx. 360g

Uses of DA-130N:

- Density measurement on crude oil, fuel oil, lubricants and the like
- ISO 758 for chemical products requires measurement by oscillation method for 20 C density & 20/20 C specific gravity
- Density or Brix of milk, soft drinks, fruit beverages & the like
- Alcohol degree of beer, whisky, wine and spirits
- Quality control by measuring Brix or concentration of food materials
- Density or specific gravity of oils and fats such as vegetable oils or animal oils
- Conforming to U.S. Pharmacopeia for pharmaceutical products
- Concentration control of etchant or pickling fluid for electronic components
- Concentration control on flux or plating fluid

Model: RA-130, Portable Refractometer



- Wide measuring range: -Brix 0~85%
-Refractive index 1.3200~1.5000
- Data storage: Up to 1100 measurements results
- Data transfer to your computer by supplied software via infrared port. Can also output via RS232C with RS converter for infrared (Option).
- Can display measurement results in Refractive Index (RI), Temperature compensated RI, Brix % and the like.
- Automatic data saving & Automatic data output can be chosen.
- Three different sucrose conversion tables Brix and isomerized sugar HFCS42, HFCS55.
- Data can be converted to user-defined concentration and the unit can be used as a concentration meter.

Specifications:

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 C
Display contents	Refractive index, Temp. comp. RI, Brix, HFCS42, HFCS55 and Temperature (C / F) Sample number, Data storage, Data output, Data deletion, Battery alarm and the like
Temp. Compensation	Up to 10 kinds of input for temperature compensation coefficients of measured samples & 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
Weight	Approx. 200g
Power source	DC 3V (2 x 1.5V alkaline AAA dry cells)
Battery life	Approx. 90 hours
Sampling Method	Two ways selective – Dipping or Dripping method available

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