ATAGO®

Digital Differential Refractometer

Cat.No.3930

DD-7

The Ultimate Answer For Monitoring Low-Concentration Liquids

High-accuracy measurement is made possible by measuring the difference in concentrations of 2 solutions.

Application examples:

- Tea
- Unsweetened or diet beverages
- Coffee or herbal extracts
- Cleaning and sanitizing solutions
- Surfactants

The DD-7 measures solutions of up to 2% Brix concentration at the extremely high-accuracy level of ±0.005% Brix.

(Note that the range of measurement gets narrower at concentrations higher than 10% Brix.) When a reference solution of 8.000% Brix is used, for example, the DD-7 can measure concentrations in the range of 8% to 10% Brix at resolution of 0.001% Brix and precision of measurement of ±0.005% Brix. Note: High viscosity samples may not be suitable for measurement.

- Measurement is very simple. Inject a reference solution and a sample solution to respective injection ports, and press the Start Switch.
- Digital readings eliminate reading errors resulting from user subjectivity.
- Measurement data can be exported to a printer or computer via RS-232C connection.

Measure low-concentration food and beverages, such as coffee, tea, diet sodas, and herbal extracts.

Measure concentrations of sanitizers and disinfectants, such as hydrogen peroxide solutions, at a precision level of ±0.012% or higher.

Measure surfactants, anti-rust agents, metal-working fluids, and other industrial solutions at ±0.005% Brix accuracy.

Specifications

- Method of measurement : Differential optical refraction method
- Measurement range : 0.000 to 2.000% in concentration (for sucrose solution)
  It is possible to measure samples with refractive index up to 1.50 (nD) by reference solutuion.
  (Samples must be low in viscosity.)
- Measurement accuracy : ±0.005% (In the case of measurement of sucrose solution (0 to 2%) at 30˚C)
- Unit of minimum display : 0.001%
- Temperature control range : Between 5˚C and 10˚C above ambient temperature; up to 40˚C *Heating only (no cooling)
- Ambient temperature : 10 to 30˚C
- Display area : Two 24-characer lines (LCD)
- Light source : LED
- Light sensor : Photo-diode (dual type)
- Output RS-232C Printer : Digital printer DP-63, DP-AD(optional)
- Power supply : AC100 to 240V, 50/60Hz
- Power consumption : 50VA
- Dimensions : 36(W) × 35(D) × 14(H)cm
- Weight : 5.8kg

All ATAGO products are designed and manufactured in Japan.

HACCP GMP GLP ATAGO products comply with HACCP, GMP, and GLP system standards.

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* Specifications and appearance are subject to change without notice.

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