

# Functional and stylish.

**Pursuing the best performance and convenience.**

- Measurement time and operator name can be managed!
- Backlit display!



# Portable Density/Specific Gravity Meter DA-130N

## Features

**Lightweight and easy operation. Can show a lot of information. Ergonomically-designed Portable Density/Specific Gravity Meter with backlit display for easy reading.**

- 1) Backlit display enables you to perform measurement in a dark place.
- 2) Clock function equipped.
- 3) ID code can be entered.
- 4) Sampling volume and speed can easily be adjusted in one hand. (Patent No. 3330580)
- 5) **It does not matter which hand you use to operate.** Status of measuring cell can be monitored even while measurement is going on.
- 6) Lightweight and **fatigue-free** design.
- 7) **Capable of measuring samples** of up to 2,000mPa·s of viscosity.
- 8) **Display Items** : Density, temp-compensated density, SG, temp-compensated SG, Brix%, alcohol concentration, sulfuric acid concentration, API degree, Baume degree, Plato degree, Proof degree, etc.
- 9) Graphic LCD shows **not only measurement results but also temperature (°C/°F), sample No., auto determination of oscillation stability, auto save/auto output/deletion of data, battery level, etc.**
- 10) **Battery life doubled** compared with conventional model. Much longer operating time.
- 11) **Measurement time and operator name can be printed out.**

## Specifications

|                                  |  |
|----------------------------------|--|
| Model                            | DA-130N Portable Density/Specific Gravity Meter  |
| Measuring method                 | Resonant frequency oscillation   |
| What to measure                  | Liquid samples   |
| Measuring range                  | 0.0000 to 2.0000g/cm <sup>3</sup>  |
| Accuracy                         | ±0.001g/cm <sup>3</sup>  |
| Resolution                       | 0.0001g/cm <sup>3</sup>  |
| Temperature range                | 0 to 40.0° C (32 to 104° F)  |
| Backlit display                  | Density, temp-compensated density, SG, temp-compensated SG, Brix%, Alcohol wt%, Alcohol vol%, %H <sub>2</sub> SO <sub>4</sub> , API degree, Baume degree, Plato degree, Proof degree, Temperature in °C/°F, Sample No., Stability, Data storage, Data output, Data deletion, Battery level, etc. |
| Temperature compensation         | Up to 10 coefficients for temperature compensation can be entered.   |
| Materials in contact with sample | PTEE, borosilicate glass, polypropylene (PP), Fluoro Rubber<br>*May not be resistant to every sample and cleaning solution.  |
| Auto calibration                 | Density of water at each temperature, required for calibration of measuring cell, is pre-installed.  |
| Sampling by                      | Syringe-type hand pump   |
| Data storage                     | Up to 1,100 samples  |
| External output                  | Infrared communications port (conforming to IrDA Ver. 1.2)<br>Conversion to RS-232C output (Optional parts required)   |
| Power supply                     | Alkaline battery LR03 (AAA) 1.5V 2pcs  |
| Battery life                     | Approx. 90 hours   |
| Weight                           | Approx. 360g (0.794 lbs)   |

## Operation

Suctioning and draining can be done with your thumb and forefinger. Once you stop pressing, operation will stop. Measurement can easily be done with your thumb, enhancing efficiency of your work.

- **Draining**
- **Suctioning**
- **Measuring**  
Measurement can easily be done with your thumb and forefinger.

- **Communication**  
Equipped with IR port. Convenient for data communication. (Conforming to IrDA Ver. 1.2)
- **Backlit display**  
Easy-to-read display. Graphic LCD enables you to readily grasp various information.

## Application

- **Density measurement of crude oil, fuel oil and lubricant oil.**
- Oscillation method is specified in **ASTM D 7777**.
- Density or Brix measurement of **various beverages such as milk, soft drink, fruit drink, etc.**
- Measurement of alcohol or extract concentration of **beer, whisky, wine, shochu (Japanese distilled alcohol), Japanese sake (fermented alcohol), etc.**
- Measurement of Brix or constituent concentration of **food materials** for quality control purposes.
- Density or SG measurement of **oils and fats such as vegetable oil, animal fat and oil, etc.**
- **Conforming to Japanese Pharmacopoeia.**
- Concentration check of **etching solution or acid pickling solution for electronic parts.**
- Concentration check of **flux or plating solution.**

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