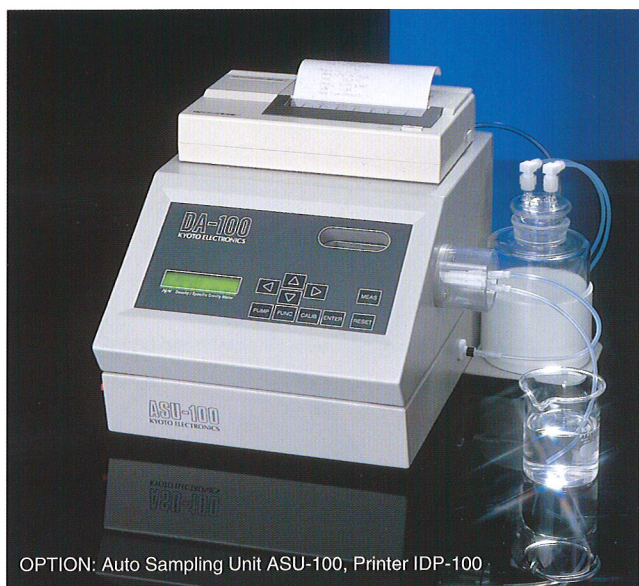


Density/Specific Gravity Meter

DA-100

The DA-100 has built-in thermostat to enable stable temperature control, and density/specific gravity is measured quickly and precisely.

Accuracy of measurement is $\pm 0.001\text{g/cm}^3$ by measuring resonant frequency.



OPTION: Auto Sampling Unit ASU-100, Printer IDP-100

Features

- Temperature can be selected in the range from 15 deg. C to 40 deg. C by 0.1 deg. C step. Also setting in deg.F (59°F~104°F, 1°Fstep) is available.
- Can convert density/specific gravity to concentration value and display the result.
Conversion Equation is linear and display is in 12 different units.
It enables more efficient and effective routine measurement than conventional measurement with hydrometer for API degree, Baume degree and others.
- Can output data of density, specific gravity, concentration values, date and time, etc through RS-232C and can be connected to an external computer or an optional printer. (External computer and printer cannot be connected at the same time.)
- Parameter setting and operating is designed user-friendly, easy to use, being guided by dialogue message on display.
- Purge pump is equipped as standard to desiccate the measuring cell.
- Easy factor calibration of measuring cell can be performed using air and pure water.
No complicated calculation is required.

Specifications

Model	DA-100
Measurement method	Natural Oscillation method
Measurement range	0~3g/cm ³
Measurement accuracy	$\pm 0.001\text{g/cm}^3$
Measurement temperature range	15°C~40°C(0.1°C step) 59°F~104°F(1°F step)
Temperature accuracy	$\pm 0.5^\circ\text{C}$
Temperature control	$\pm 0.1^\circ\text{C}$
Measurement time	20sec~90sec (within 1min for aqueous solution)
Min.sample required	Approx. 1mL (manual sampling by syringe)
Display	16 character×2 lines on LCD with back light Density, specific gravity : x.xxx Temperature : xx.x°C or xxx°F Concentration : $\pm x.xxx \sim \pm xxxxx$ (1 to 3 digits after decimal can be selected.) Messages
Sampling	Manual sampling by syringe (or optional sampling unit)
Stability judgment	By built-in processor
Calibration	2 point factor calibration using dry air and degassed pure water
External output	RS-232C (1 channel)
Outer dimension	275 (W)×350 (D)×165 (H) mm
Power supply	AC100-115V or AC220-240V, 50/60Hz
Power consumption	Approx. 30W
Weight	Approx. 6Kg

OPTIONS

Auto sampling unit	ASU-100
Printer	IDP-100

Flow Chart of Auto Sampling Unit

