

# Density/Specific Gravity Meter DA-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°F step) 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.

Specification : See page 8

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, and Printer IDP-100 are available.

Type and Model name	DA-100 Density/ Specific gravity meter	DA-130 Density/ Specific gravity meter
Measuring method	Resonant frequency detection	
Measuring range	0 ~ 3g/cm <sup>3</sup>	0 ~ 2g/cm <sup>3</sup>
Measuring temperature	15 ~ 40°C ; 59 ~ 104°F	0 ~ 40°C
Accuracy	Density	± 0.001g/cm <sup>3</sup> When calibrated by pure water and dry air
	Refractive index	N/A
	Temperature	± 0.5°C      N/A
Minimum sample required	2 mL	
Auto viscosity correction	Not available	
Measuring time	1 ~ 4 minutes by manual	
Display	LCD with back light	
Sampling	Manual by syringe Auto by ASU-100 (option)	Manual by hand pump
Calibration	Air & Water	
Auto statistical data	N/A	
Recalculation	N/A	
Printout	IDP-100 impact dot printer(Optional)	
Data I/O	N/A	
External control	RS-232C (1 channel)	IrDA personal computer
Power source	AC100 ~ 115V or AC220~240V ; 50/60Hz	Alkaline AAA dry cells 1.5V x 2
Power consumption	Approx. 30W	N/A
Dimension	275(W)x350(D)x165(H) mm	65(W)x115(D)x333(H) mm(with sampling tube)
Weight	Approx. 6kg	Approx. 360g
Supplied parts	Power cord 1 pce. Sampling syringe 10 pcs. Sampling/Drain tube 2 pcs. Tube joint 2 sets Desiccant 1 pce. Desiccant tube 1 pce. Surge prevention fuse 2 pcs. Operation manual 1 pce. Others	N/A