

DM100 Density meter



PRODUCT INTRODUCTION

The DM100 is a portable handheld density meter utilizing patented U-shaped oscillating tube measurement technology for liquid density measurement. In addition to measuring liquid density in units of g/cm^3 or kg/m^3 , it can also measure other parameters such as relative density, reference temperature, and concentration. The temperature sensor enables real-time measurement within the measurement cell. Measure the sample temperature and display it on the screen; if necessary, internal automatic temperature compensation for density measurement is available.

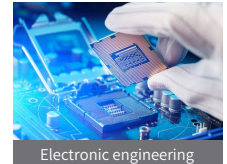
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MAIN FEATURES

- Execution Standard: ASTM D7777-24;
- Compact, lightweight design, convenient for single-hand operation Intuitive display interface ;
- Robust, leak-proof housing design; samples will not enter the instrument interior even in case of sampling pump leakage;
- Infrared interface for data transmission between printer and computer;
- Stores more than 20 measurement methods;
- Stores 1024 data entries, including timestamps and sample IDs;
- Reserves 5 user-customizable methods;
- Quick and convenient replacement of the entire sampling pump.

APPLICATION FIELDS



TECHNICAL INDEX

Project	Data
Sample Introduction Method	Automatic Pumping / Manual Injection
Single Sample Volume	2ml
Sample Cell	U-shaped Bent Oscillating Glass Tube
Measurement Range	Density: 0 g/cm^3 to 3 g/cm^3 Temperature: 0°C to 40°C (32°F to 104°F)
Display	4-digit 8-segment LED Display; $55^\circ 45' 2.8\text{mm}$
Digital Resolution	Density: 0.0001 g/cm^3
Input Method	Button Panel Type Physical Keys; 3 Units
Interface	Infrared Interface (IrDA)
Data Storage and Export	Built-in memory (supports up to 1000 data records); external USB export mode (spreadsheet format)
Battery Module	2 AAA batteries; 3 V
Accuracy	Density: 0.001 g/cm^3 Temperature: 0.2°C (0.4°F)
Repeatability standard deviation	Density: 0.0005 g/cm^3 Temperature: 0.1°C (0.2°F)
Reproducibility standard deviation	Density: 0.0001 g/cm^3
Dimensions	$160\text{mm} \times 140\text{mm} \times 28\text{mm}$ (L $\times$ W $\times$ H)
Weight	Approximately 260 g