

Automatic Density Meter (with Peltier system)

DDM-50



Automatic Density Meter is a high-precision analytical instrument engineered for fast, accurate, and repeatable measurement of liquid density.

It works on the proven vibration principle using a temperature-controlled U-shaped oscillating tube. When a sample is introduced, the change in oscillation frequency is directly proportional to the density of the liquid, ensuring exceptional accuracy and stability.

Designed for demanding laboratory and industrial environments, the Automatic Density Meter offers rapid measurement, minimal sample volume requirement, and excellent long-term reliability.

Ideal for applications in pharmaceuticals, food & beverage, chemicals, petrochemicals, and research laboratories, it ensures consistent results while reducing operator error and analysis time.

SALIENT FEATURES:

- 10-inch intuitive touch color screen
- Quickly measure the density of liquids
- Quartz glass U-shaped oscillating tube with high-precision photoelectric detection system
- Advanced temperature control using platinum resistance sensors combined with peltier semiconductor refrigeration
- Data can be printed directly using thermal printer or exported in PDF and Excel formats.

SALIENT FEATURES:

- Sports 1080P high-definition camera for real-time observation of the sample
- Bubble detection function enables users to visually identify air bubbles or impurities
- Built-in air pump for automatic drying and cleaning of the measuring tube
- User Management & Audit Trail
- GLMP/GMP/21CFR compliant
- Multi-user with password protection

SPECIFICATIONS:

Model	DDM-50
Make	Galaxy
Density Measuring Range	0.0000 to 3.0000 g/cm ³
Density Resolution	0.0001 g/cm ³
Density Accuracy	±0.0003 g/cm ³
Density Repeatability	±0.0001 g/cm ³
Temperature Resolution	0.01°C
Control Temperature Range	5 to 50°C
Control Temperature Repeatability	±0.05°C
Control Temperature Accuracy	±0.1°C
Measurement Units	Density, Specific gravity
Display	10 inch Touch Screen
Camera	1080p High Definition Camera
Calibration	Multi-Point Calibration
Memory	32 GB
Interface	USB, RS232, SD card, U disk
Electronic Signature	Yes
Compliance	GLP/GMP/21CFR
Audit Trail	Yes
User Management	Yes/4-level authority management
File Export Type	PDF & Excel
Power Supply	AC 220V / 50 Hz
Dimensions & Weight	480 x 320 x 200 mm & 8 kgs

STANDARD

- Power Adapter

ACCESSORIES:

- Instruction Manual
- Waster Water Bole
- Inlet & Outlet Tube