Automatic Density Meter
Smart-D80

Density meter also known as a specific gravity meter, is an analytical instrument that utilizes a U-shaped hollow glass tube to rapidly and automatically measure the density of liquid samples through oscillation. Depending on specific applications, the measured density can be converted into concentration and other units.

SHANGHAI YUKE INDUSTRY CO. ,LTD

ROOM 1022,SOUTH DISTRICT, No.5616 CAOAN ROAD, ANTING TOWN, JIADING DISTRICT,SHANGHAI

I. Accuracy, Intuitiveness, and Speed

The Smart-D80 fully automated liquid density meter features precision, intuitive operation, and rapid response. It offers automatic temperature control, real-time video monitoring, and data printing capabilities. With an intuitive interface for quick measurements and on-screen guidance, it not only simplifies daily tasks but also significantly reduces operator error rates and training time.

II. Easy to Operate

The streamlined interface enables customers to initiate the complete workflow—including sample injection, measurement, washing, drying, and SOP—simply with one click.

III. Error Detection

Observe the measurement results in real time via video to check for bubbles and minimize measurement errors.

VI. Specification data

Model	Smart-D80
Measurement range (g/cm³)	0 g/cm3 – 3 g/cm3
Accuracy ± (g/cm³)	0.00008 g/cm3
Repeatability ± (g/cm³)	0.00005 g/cm3
Resolution (g/cm³)	0.00001 g/cm3
Temperature control range	5 °C – 95 °C
Temperature control	yes
Measurement unit	Density, specific gravity, concentration
Sampling method	Automatic injection/manual injection
Custom Formula	Yes

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Audit trial	Yes
MD5 verification	Yes
Electronic signature	Yes
Export Data	Yes
Minimum sample size	3mL
Built-in drying pump	Yes
Video Watch	Yes
Result limit	Yes
User management	level Four
Print	Yes
Data storage	Yes
Connect function	RS232、USB
Screen Help Text	Yes
Language	Chinese / English
Display/User Interface	8-inch color touch display
Standards and specifications	GBT 11540-2008/China Pharmacopoeia 0601/GB/T 13531.4-2013/JJF1070-2005
Product type	Benchtop density meter
Power source type	110v-220v, 50Hz/60Hz
Outline dimension	Length x Width x Height: 380 x 361 x 165 mm
Weight	8kg