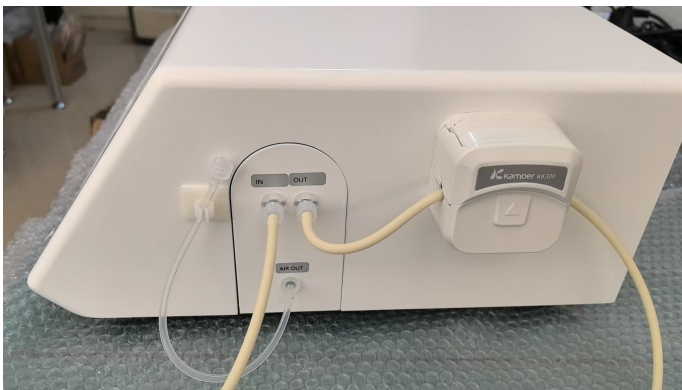


Automatic Density Meter Smart-D80



Brief Introduction

The Smart-D60/D80 automatic densitometer is based on the principle of **U-tube oscillation method**, which perfectly combines Peltier's precise temperature control technology with high-definition video camera technology to not only provide accurate, stable and reliable test results, but also provide users with efficient and convenient test experience. High-definition video can see whether there is bubble influence in the sample, using pulse excitation, high-precision detection technology, convenient for users to accurately and quickly measure the sample density and density related parameters.



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Fields of use

1. Pharmaceutical industry: quality control of API and pharmaceutical intermediates, determine the specific gravity and density of pharmaceutical agents;
2. Flavor flavor: food flavor, daily flavor, tobacco flavor, food additive raw material verification;
3. Petrochemical industry: crude oil API index, gasoline, diesel density detection, additive mixing ratio process monitoring;
4. Beverage industry: measurement of sugar concentration, alcohol concentration, beer quality control, soft drink quality control;
5. Food industry: grape juice, tomato juice, high fructose corn syrup, vegetable oil and soft drinks processing quality control;
6. Brewing industry: liquor, yellow rice wine, red wine, beer, fruit wine, rice wine and other alcohol concentration detection;
7. Chemical industry: chemical urea, detergent, glycol, acid and alkali and ammonia concentration test;
8. Machinery manufacturing: metal processing, machine manufacturing, automotive industry, electronic and electrical cleaning agent detection;
9. Inspection institutions: standard laboratories, statutory testing institutions, third party detection of liquid density measurement.

The main features

1. The streamlined interface enables customers to initiate the complete workflow—including automatic sample injection, measurement, washing, drying, and SOP—simply with one click.
2. Built-in semiconductor Peltier temperature control, improve accuracy and stability.
3. Observe the measurement results in real time via video to check for bubbles and minimize measurement errors.
4. Data can be printed directly through the printer.
5. Compliance with 21CFR Part 11, audit trail, pharmacopoeia and electronic signature.
6. **The built-in air pump allows for rapid drying of the sample cell.**
7. **Automatic bubble detection and alarm function during sample injection**

Specification data

Model	Smart-D80
Measurement range (g/cm ³)	0 g/cm ³ – 3 g/cm ³
Accuracy ± (g/cm ³)	0.00008 g/cm ³
Repeatability ± (g/cm ³)	0.00005 g/cm ³
Resolution (g/cm ³)	0.00001 g/cm ³



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Temperature control	5 °C – 95 °C
Measurement unit	Density, specific gravity, concentration
Sampling method	Automatic injection/manual injection
Custom Formula	Yes
Audit trial	Yes
MD5 verification	Yes
Electronic signature	Yes
Export Data	Yes
Minimum sample size	3mL
Built-in drying pump	Yes
Bubble detection	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



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