

# Density Meter DS7800 | DS7900

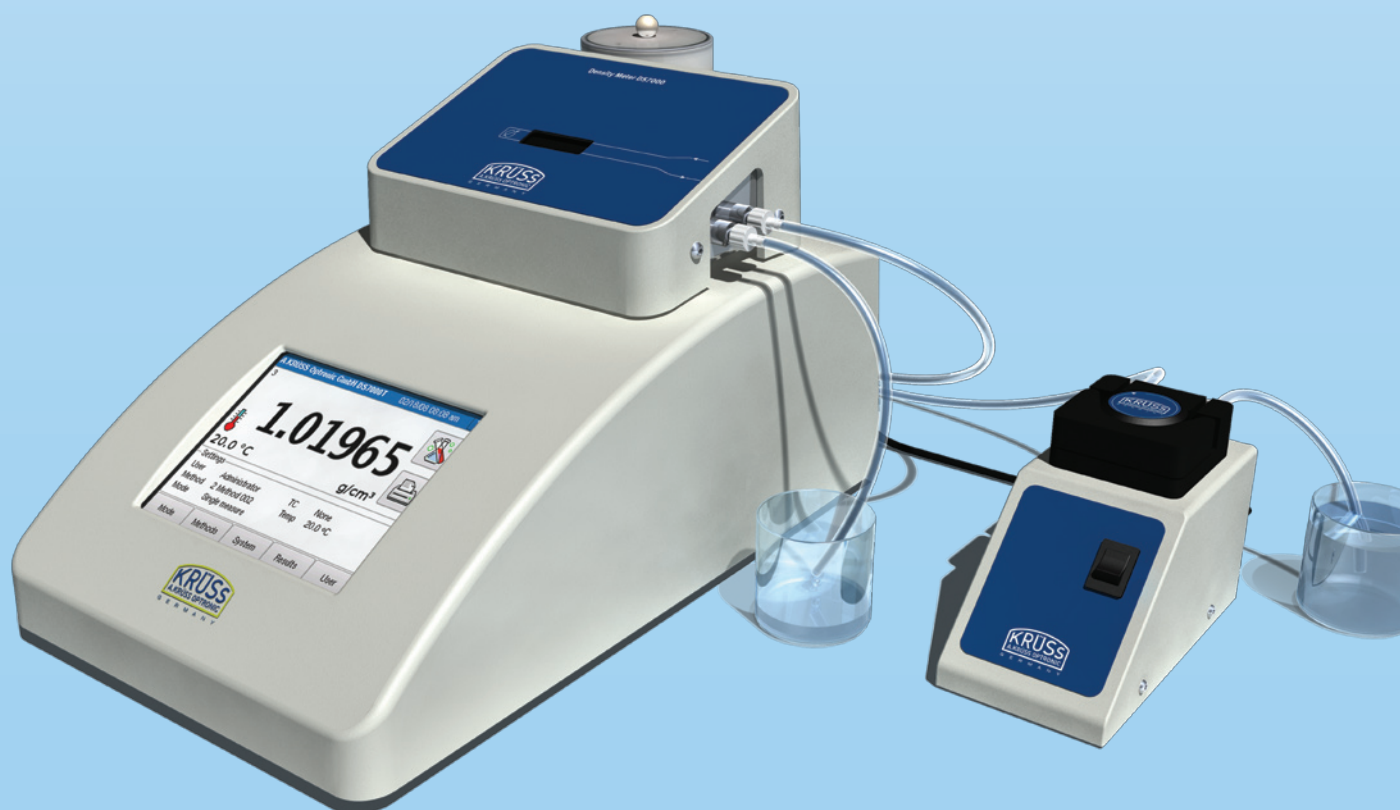
Digital density meters with up to five decimal places for measuring density, relative density and concentration of aqueous solutions in a range of 0.00000 – 1.99999 g/cm<sup>3</sup>. Measuring method is based on established oscillating U-tube technology. The U-tube made of glass is monitored through the window to ensure that no gas bubble falsifies measurement results.

The device has a high-precision recirculation air-temperature control based on a Peltier element. Calibration is performed with pure water and dry air.

A dry-air unit and a peristaltic pump for sample handling are included.

The operation is intuitive and done by a user-friendly touch screen. All important settings are visible on the main screen and stored in an SQL data base together with measuring results. Data storage covers last 999 measurements.

Our density meters comply with **ASTM D4052** and **D5002**. An activatable three-level user administration with password protection makes the DS7800 and 7900 particularly suitable for use in GLP/GMP regulated industries.



## Fields of application:

Determination of mixing ratios, quality and quantity inspection in the following industries:

- Chemical industry
- Pharmaceutical industry
- Cosmetics industry
- Beverage industry / breweries
- Food industry
- Sugar and sweetener industry
- Pulp and paper industry
- Electronic industry
- Petrochemical industry
- Wastewater management

## Features at a glance

- Oscillating u-tube measurement cell with high resolution
- Desiccation unit and peristaltic pump included
- Integrated high-accuracy Peltier thermostat
- User-friendly touch-screen operation in 6 languages
- Data display of all important settings and measurements
- Various programmable measurement units
- Password-protected user administration (optional)
- Ethernet interface for direct connection to a PC
- Data export and firmware update via USB interface
- RS-232 interface for dot matrix printer
- 32-bit processor
- SQL database
- NIST-compliant calibration certificate
- Full GLP suitability
- ASTM-compliant
- Low consumables costs

## Specifications

- Measurement range
- Accuracy of measured value
- Repeatability of measured value
- Sample volume by manual injection
- Temperature range
- Reproducibility
- Measurement time
- Ambient temperature
- Calibration
- Manufacturer's calibration
- Case
- Display
- Interfaces
- Power supply
- Methods
- Result storage
- Printer port
- User administration
- Password protection
- LIMS access

**DS7900:** 0.00000 - 1.99999 g/cm<sup>3</sup>

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**DS7900:** 0.00005 g/cm<sup>3</sup>

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approx. 2 ml

10 – 40 °C

±0.02 °C

30 – 60 s

10 – 40 °C

with dry air and distilled water

4 – 10 supporting points

3rd-degree polynomial

Cast aluminium

LCD TFT 5.7 ", 320x240 Px

RS-232, USB, Ethernet

90 – 264 V, 50/60 Hz, 60 W

99 freely definable methods

999 last measurements

serial

activatable

activatable

possible