

PREMIUM DENSITY MODEL L

The all-rounder

DIMENSIONICS DENSITY L is the premium system for complete process control and process tracking. It tests high quantities in less than 2 minutes per measurement cycle and offers space for up to 18 samples (expandable on customer request).

The comprehensive sensor system records all relevant environmental factors and enables precise density values. A dust protection cover prevents contamination, and the graphical characteristic history offers quick trend analyses. The L series has the most features, maximum software customization and advanced parameterization for individual customer requirements.

WHY THE SYSTEM BY DIMENSIONICS

Most cost-effective Quality assurance



Fast and precise inspection of your products. Can be integrated into any process.

Best Process control



Direct networking with your production systems via interface communication.

Highest level of Precision



The combination of high-end laboratory systems, state-of-the-art automation technology and the in-house algorithm enables accuracies of up to 0.001 g/cm³.





The future of density determination

Dimensionics Density is an advanced automated density measurement system based on Archimedes' principle. This principle enables the precise determination of the material density by measuring the displacement volume of a liquid. This classic principle has been taken to a new level thanks to state-of-the-art technology.



THE ADDED VALUE OF THE DENSITY MODELS

- Determining densities, volumes, porosity, masses, etc.
- Density determination of green parts and water-drawing components
- Density determination of the smallest components (up to 1g)
- Non-destructive testing (NDT)
- Highest precision (up to 0.001 g/cm³)
- High clock speed
- Automated recording and processing of all environmental parameters
- Traceability of measurement results (certified density standard)
- Can be used directly in the production environment
- Parameterization of manufacturing systems through smart factory
- Determining the shrinkage of workpieces before sintering

Features

Components per measurement	18 (expandable)
Cycle time for one measurement	ca. 90 sec.
Measuring accuracy	± 0.001 g/cm ³
Measure density < 1 g/cm ³	Yes
Measurement of complex comp.	Yes
Number of integrated scales	2
Creating measurement recipes	Yes
Automation options	Yes
Dust protection class IP6X	Yes
Modular software packages	Yes
Calibration standard	Yes