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DSA 48 Density and Sound Analyzer

- Unique combination of density and sound velocity measurement
- Integrated thermostat
- New dimensions in concentration measurement of liquids



DSA 48 Density and Sound Analyzer

The concept of measuring 2 physical properties for the determination of concentrations in 3-component liquids, or for product characterization, is not new: density plus refractive index has been in use for many years. Modern technology now combines sound velocity and density measurement in the DSA 48, opening new fields in concentration analysis.

Features

- Density measurement using the proven Anton Paar oscillating U-tube method
- Sound velocity measurement by modified ring-around technique
- Customer specific concentration formulas can be programmed
- 10 concentration formulas for 3-component liquids can be stored
- True density, sound velocity, concentrations and other density and sound velocity related values can be displayed and printed
- Automatic sample changer available

Applications

- Quality control and product identification of liquids
- Research of mixtures and solutions
- Concentration determination in 2- and 3-component liquids (formaldehyde/methanol/water, NaOH/NaCl/H₂O, etc.)
- Adiabatic compressibility of liquids
- Special versions for:
 - Beer analysis: alcohol, real and apparent extract, original extract
 - Soft drink analysis with sugar inversion
 - Sulfuric acid

Technical Specifications

Measuring Range

Density	0 to 3 g/cm ³
Sound velocity	1000 to 2000 m/s

Accuracy/Repeatability

Density	0.0001 g/cm ³ / 0.00005 g/cm ³
Sound velocity	1 m/s / 0.1 m/s

Measuring Temperature

-10 to +70 °C, +14 to +158 °F

Precision of the Internal Thermostat

0.01 °C, 0.02 °F

Temperature Equilibrium Time

0.5 to 3.5 min

Pressure Range

Up to 1 bar, up to 15 psi

Minimum Amount of Sample

Approx. 2 ml

Measuring Time per Sample

1 to 8 min

Data Output

Two RS 232 interfaces for external printer and/or computer

Dimensions (L x W x H)

510 x 275 x 210 mm,
20 x 11 x 8.5 inches

Weight

Approx. 25 kg, approx. 55.1 lbs

Specifications subject to change without notice.

Anton Paar

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Instruments for:

- density/concentration
- CO₂ measurement
- rheology/colloid science
- microhardness testing
- sample decomposition
- temperature
- X-ray structure analysis
- medicine/biology



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