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Find the *Anton Paar DSA-48* at our website: ***Click HERE***

Anton Paar

DSA 48 Density and Sound Analyzer

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



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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 sing-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/H_2O, 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/cm³
Sound velocity	1000 to 2000 m/s
Accuracy/Repeatability	
Density	0.0001 g/cm³ / 0.00005 g/cm³
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
- rheology/colloid science
- sample decomposition
- X-ray structure analysis
- CO_2 measurement
- microhardness testing
- temperature
- medicine/biology

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