



Anton Paar

::: Unique Density & Concentration Meters



DMA 4100

This new 4-digit density meter is ideal for the wide range of applications in the quality control of beverages, liquid foods, food additives and for liquid chemicals and all types of petrochemical products.

DMA 4100 | Density meter

The new density meter for liquids from the world leader Anton Paar is particularly suitable for quality control. It provides first-class measuring technology, a robust design and easy operation at a very reasonable price.

The instrument has great advantages for daily use: rapid measurements – up to 60 per hour – and complete compensation of all influences from the sample viscosity without needing to alter the instrument settings. A built-in electronic thermostat ensures the correct measuring temperature.



Features

- ▶ Convenient and simple operation
- ▶ Quick adjustment with air and water only
- ▶ Fast results (approx. 30 seconds per sample)
- ▶ Density check function
- ▶ Audit trail function
- ▶ Memory for 100 measurement results
- ▶ Minimum lab space required
- ▶ Built-in solid state thermostat
- ▶ Virtually maintenance-free

Methods

- ▶ 10 predefined methods for density, Brix, alcohol, petro, etc.
- ▶ 15 user-specific polynomials
- ▶ 3 user-specific tables

Viscosity correction

- ▶ All viscosity-related errors are eliminated
- ▶ Viscosity correction covers all sample viscosities
- ▶ No need for viscous standards

Permanently stored tables

- ▶ Ethanol tables % v/v, % w/w (OIML, OIML-ITS90, IUPAC, KAEMPF, AOAC 60 °F, Proof 60 °F, HM C&E)
- ▶ Extract/sugar tables (°Brix, °Plato, °Baumé)
- ▶ Acid/base tables (HCl, NaOH, H₃PO₄, HNO₃, H₂SO₄)
- ▶ API tables (product groups A, B, D, 15 °C, 20 °C, 60 °F)

Reference oscillator

The reference oscillator eliminates long-term drifts and enables faster sample throughput. One air/water adjustment at 20 °C is sufficient for the whole temperature range.

Options

Keyboard, bar code reader, printer, heating attachment, refractometer RXA 156/170, CarboQC, DMA HP, sample handling unit Xsample 350, sample changer Xsample 450, SP-1m, SP-3m

Specifications

Measuring range: 0 to 3 g/cm³

Accuracy:
Density: 0.0001 g/cm³
Temperature: 0.05 °C

Repeatability, s.d.:
Density: 0.00005 g/cm³
Temperature: 0.02 °C

Measuring temperature: 0 to 90 °C (32 to 194 °F)

Minimum amount of sample: approx. 1 mL

Pressure: 1 to 10 bar

Dimensions (L x W x H): 440 x 315 x 220 mm
(17.5 x 12.5 x 9 inches)

Weight: approx. 21 kg (46 lbs)

Power supply: AC 85 to 260 V; 48 to 62 Hz

Interfaces: 2 x RS 232 for printer and PC
1 x PS/2 for IBM-compatible keyboard and/or bar code reader

Anton Paar GmbH

A-8054 Graz, Anton-Paar-Str. 20
Tel: +43 (0)316 257-0, E-mail: info@anton-paar.com
Fax: +43 (0)316 257-257, www.anton-paar.com

Instruments for:

Density & concentration measurement	Colloid science
Rheology and viscometry	X-ray structure analysis
Sample preparation	CO ₂ measurement
Microwave synthesis	High-precision temperature measurement



Specifications subject to change without notice.

Your distributor: