DMA 38 : precision density meter with built-in thermostat / Anton Paar K.G.

DMA 38

Precision Density Meter

with built-in thermostat

Accuracy: ±0.001 g/cm³

PAAR

MICROCOMPUTER CONTROLLED
DENSITY METER
with built-in solid state thermostat

DMA 38

MEASURING PRINCIPLE
PAAR mechanical oscillator method

20 YEARS OF EXPERIENCE in design of density meters led to a very user friendly instrument: it's smartness minimizes the possibility of errors.

OPERATION of the instrument is supported by a built-in microcomputer. It takes care for sample temperature and correct calibration.

THE NEW DESIGN is easy to use showing how to calibrate and calling for recalibration if it has been overlooked.

APPLICATION

- determination of true density and density related values
- concentration measurement (e.g. in food, beverage, photo, pharmaceutical, cosmetic, polymer, nuclear and petrochemical industries)
- quality control (e.g. in pharmaceutical and general chemical industry)

FEATURES AND BENEFITS

- built-in solid state thermostat — temperature is controlled by a built-in microcomputer
  — temperature readout is available for calculation and calibration
  — no problems with external thermostat baths
  — the internal thermostat saves space on lab bench
- minimum sample size (0.7 ml)
- In addition to true density the instrument can display any density related magnitude in physical units. A large variety of customized options is available from stock.
- SP3 sample changer (optional) allows automatic operation

SPECIFICATIONS

Measuring range:	0. . .3 g/cm³
Accuracy:	±1x10⁻³ g/cm³
Sample size:	approx. 0.7 ml
Sample temperature range:	+15. . . .+40 °C
Precision of internal thermostat:	±0.1 °C
Temperature equilibrium time:	0.5. . . .3.5 min
Typ. test or cycle time:	1. . . .8 min
Pressure:	up to 10 bars (150 psi)
Digital display reads two magnitudes:	true density and any other (also non-linear) density related value (customized programming)
Digital data output:	Two RS 232 C, the DMA 38 can be interfaced to an external PC (IBM compatible) and/or printer
Dimensions:	280 x 210 x 270 mm
Weight:	approx. 10 kg

Patents: Austrian patent No. 280662, Germany patent No. 1648953, British patent No. 1189083, French patent No. 1579521, US-patent No. 3523446, further patents in pending.

Specifications subject to change without notice. AP-920320

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Instruments for – density/concentration – preparation for electron microscopy – rheology – fibre testing – X-ray structure analysis – medical equipment – preparation for trace analysis – astronomy . . . and others

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