

DMA 35

Portable Density/Specific Gravity/
Concentration Meter

::: Unique Density & Concentration Meters



DMA 35

Density Measurement on the Move

DMA 35 is the new generation of Anton Paar portable density meters, using the oscillating U-tube technology. DMA 35 measures the density and density-related values of your sample and shows the measuring results within seconds on the large display, ready for storage, printout or export to a PC.

Are you tired of cable tangles within your measuring environment? DMA 35 provides completely wireless communication with a printer or PC via the integrated IrDA interface. The product version DMA 35 Tag&Log is additionally equipped with an RFID interface for quick sample identification and convenient change of the measurement method by reading RFID tags.

Features

User-friendliness

- ▶ Compact, lightweight design enabling one-hand measurement
- ▶ Easy operation, even when wearing protective gloves
- ▶ Intuitive user interface
- ▶ Large LC display with backlight for clear visibility of results
- ▶ Measuring cell with inspection window and backlight
- ▶ Automatic backlight activation when new sample is filled

Robustness

- ▶ Rugged, leakproof housing design
- ▶ Designed for industrial and field applications
- ▶ Pump spills do not enter the instrument

Wireless communication

- ▶ Infrared data interface for data exchange with a PC and data export to a printer
- ▶ Tag&Log product version with additional RFID interface for change of measurement settings by simply reading RFID tags

Efficiency

- ▶ Storage of up to 100 sample IDs for easy sample identification
- ▶ Storage of up to 20 measuring methods
- ▶ Storage of up to 1024 measurement results including timestamp and sample ID
- ▶ Up to five programmable custom functions
- ▶ Two exchangeable 1.5 V AA batteries ensure long-term, reliable service
- ▶ Energy-saving mode is provided
- ▶ Easy and fast replacement of the entire pump assembly

Developed in cooperation with Labor für Messtechnik Dr. H. Stabinger GmbH, Graz



Product Versions

The DMA 35 standard version is the right choice for performing measurements with constant or only occasionally changing measurement settings. This basic model provides manual selection of measuring methods and sample IDs as well as wireless data exchange with printer and PC and is therefore an economic solution for general industrial and laboratory applications.

Additionally equipped with an RFID interface, the DMA 35 Tag&Log uniquely allocates RFID tags to methods and sample IDs, enabling you to quickly and conveniently change the method and sample ID automatically, by just reading the tag. DMA 35 Tag&Log is a big step forward in increasing the efficiency of your measuring process, especially when regularly measuring different samples according to different measuring units.

Applications

- ▶ Food and beverage industry
- ▶ Pharmacy and chemistry
- ▶ Electrical engineering & electronics
- ▶ Environment
- ▶ Petrochemistry
- ▶ General quality control and rapid product identification

Technical Specifications

Measuring range	Density: 0 to 3 g/cm ³ Temperature: 0 to 40 °C Viscosity: 0 to 1000 mPa·s
Accuracy	Density:** 0.001 g/cm ³ Temperature: 0.2 °C
Repeatability	Density: 0.0005 g/cm ³ Temperature: 0.1 °C
Resolution	Density: 0.0001 g/cm ³ Temperature: 0.1 °C
Operating temperature*	-10 to +50 °C
Supported measuring units	Density, Density @ reference temperature, Specific Gravity (SG), Alcohol % v/v, Alcohol % w/w, Alcohol US (°Proof), API Gravity, API SG, API Density, °Baumé, H ₂ SO ₄ % w/w, H ₂ SO ₄ @ 20 °C, °Brix, Extract (°Plato), five programmable custom functions
Data memory	1024 measurement results
Power supply	Two 1.5 V LR06 AA alkaline batteries
Sample volume	2 mL
Dimensions	140 x 138 x 27 mm (5.5 x 5.4 x 1.0 inches)
Weight	368 g (13 ounces)
Interfaces	IrDA OBEX, RFID (DMA 35 Tag&Log only)
Protection class	IP54

*Sample must not freeze within the measuring cell!

**Viscosity < 100 mPa·s, density < 2 g/cm³





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Instruments for:

Density & concentration
measurement

Rheometry & viscometry

Sample preparation

Microwave synthesis

Colloid science

X-ray structure analysis

Refractometry

Polarimetry

High-precision temperature
measurement

Specifications
subject to change
without notice

04/09 C96IP01-B