

## 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

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

\*Sample must not freeze within the measuring cell!

\*\*Viscosity < 100 mPa·s, density < 2 g/cm<sup>3</sup>







## Anton Paar

**Anton Paar**<sup>®</sup> GmbH  
Anton-Paar-Str. 20  
A-8054 Graz  
Austria - Europe  
Tel: +43 (0)316 257-0  
Fax: +43 (0)316 257-257  
E-mail: [info@anton-paar.com](mailto:info@anton-paar.com)  
Web: [www.anton-paar.com](http://www.anton-paar.com)

### 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