

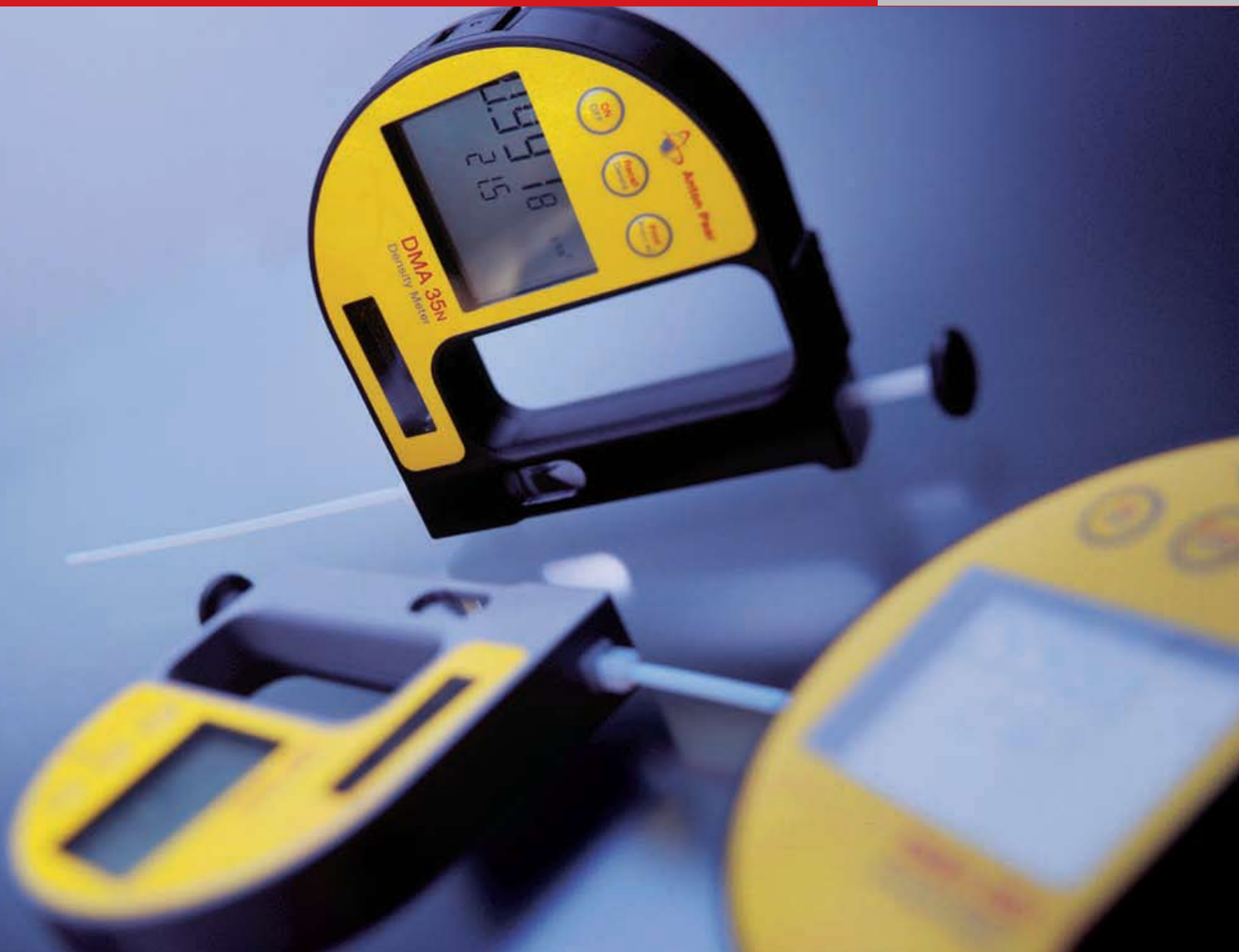


**Anton Paar**

## **DMA 35N**

Portable Density, Specific  
Gravity & Concentration Meter

::: Unique Density & Concentration Meters



# DMA 35<sub>N</sub>

## Portability and Power

The DMA 35<sub>N</sub> handheld digital density meter defines the state of the art of portable density measurement. Designed for use in the most demanding industrial environments, the DMA 35<sub>N</sub> gives you the density, specific gravity or % concentration of your sample. Simply press the lever on the built-in pump and within seconds the results are shown on the large, bright display.

Based on the familiar Anton Paar harmonic oscillator technology, the DMA 35<sub>N</sub> is light, weighing only 275 grams (10 ounces), so your arm won't get tired no matter how many samples you measure. Need to save the data for later analysis? Press a button and the measured results are stored in the instrument's memory – up to 1024 data points – and can easily be transferred to a computer or printed later.



### Ease of use

- ▶ Small, compact, lightweight design
- ▶ No arm fatigue, even when measuring hundreds of samples daily
- ▶ Easily fits into tight spaces
- ▶ Designed so that the display is easily seen, regardless of sampling position
- ▶ True one-hand operation



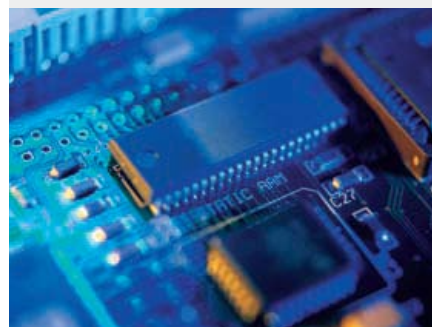
### Pipette-style pump

- ▶ Better control of sample flow
- ▶ Less effort required
- ▶ No bellows to crack or leak
- ▶ Entire pump assembly easily replaced



### State-of-the-art electronics

- ▶ Display is large, bright and easy to read
- ▶ You select the parameters displayed
- ▶ Up to 1024 data points can be stored in the instrument's memory
- ▶ Uses just two Micro LR03 1.5 V AAA batteries (0 % Cd, 0 % Hg)
- ▶ Up to 90 hours expected life per battery





The DMA 35N is the result of many years of experience brought together in an optimal portable package. Anton Paar introduced portable density meters in 1980 and has incorporated the comments and requests of tens of thousands of customers into this design.

#### Rugged design

- ▶ Designed for use in industrial or field applications
- ▶ Large enough grip for gloved hands
- ▶ Pump spills do not enter the instrument
- ▶ Infrared data port replaces RS 232
  - no terminal corrosion and no openings for samples to leak into the instrument



#### Battery acid concentration

- ▶ Emergency power supply plants
- ▶ Drive batteries
- ▶ Starter batteries
- ▶ Submarines



#### Pharmacy and chemistry

- ▶ Fermenters
- ▶ Serums
- ▶ Lab preparations
- ▶ Scouring baths
- ▶ Flux monitoring
- ▶ Insulating oils



# 3 Versions of the DMA 35<sub>N</sub>

- ▶ The standard instrument for use in the laboratory and for applications which require no explosion protection. This is typically used in the food and beverage industry and for general industrial and laboratory applications.
- ▶ The explosion-proof standard instrument (ATEX marking:  $\text{Ex}$  II 2 G EEx ib IIC T5) is predominantly used for battery acid measurements and in the field of chemical applications.
- ▶ An explosion-proof version (ATEX marking:  $\text{Ex}$  II 2 G EEx ib IIC T5) with a special housing is provided for the petrochemical industry. It is especially resistant to petrols and similar organic solvents.



## Petrochemistry

- ▶ Tankers
- ▶ Drums
- ▶ Filling and loading stations
- ▶ Storage tanks



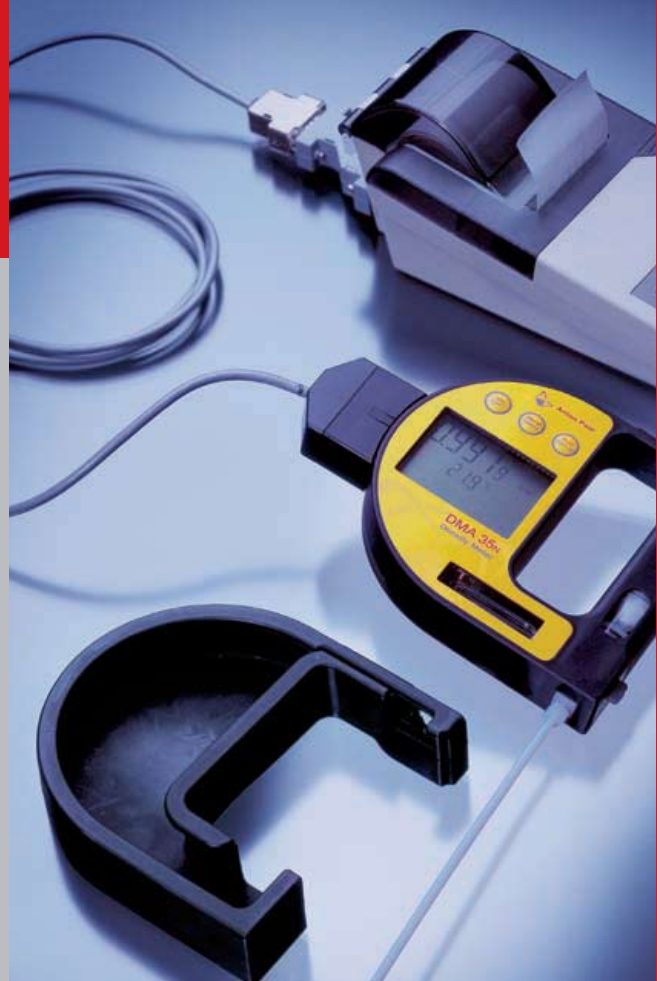
## Food and beverage industry

- ▶ Fruit juices and cider
- ▶ Beer wort
- ▶ Monitoring the fermentation process
- ▶ Distillation and rectification
- ▶ Water and sewage plants
- ▶ Wine, must and sparkling wines



## Available Options

- ▶ RS 232 interface with infrared data port
- ▶ Dot matrix printer for RS 232 connection
- ▶ Rubber shock protector
- ▶ Elongated filling tube



## Specifications

<b>Measuring range</b>	Density: 0 to 1.999 g/cm <sup>3</sup> Temperature: 0 to 40 °C (32 to 104 °F), filling at higher temperatures possible
<b>Accuracy</b>	Density: ±0.001 g/cm <sup>3</sup> Temperature: ±0.2 °C
<b>Repeatability, s.d.</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 or 0.1 °F
<b>Permanently stored tables and customer functions</b>	°Brix, % Alcohol, Proof, °Baumé, °Plato, API gravity, API SG, API density, SG at ref. temp., % H <sub>2</sub> SO <sub>4</sub> , programmable customer functions
<b>Data memory</b>	1024 measuring values
<b>Power supply</b>	Two 1.5 V alkaline batteries (Micro LR03 AAA)
<b>Sample volume</b>	Approx. 2 mL
<b>Dimensions</b>	140 x 130 x 25 mm (5.5 x 5.1 x 1 inches)
<b>Weight</b>	275 g (10 ounces)
<b>Interface</b>	Optional RS 232 interface with infrared data port



Fotos: Croce Fotostudio



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#### Instruments for:

Density & concentration  
measurement

Rheometry and viscometry

Sample preparation

Colloid science

Microwave synthesis

X-ray structure analysis

CO<sub>2</sub> measurement

High-precision temperature  
measurement

Specifications  
subject to change  
without notice

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