

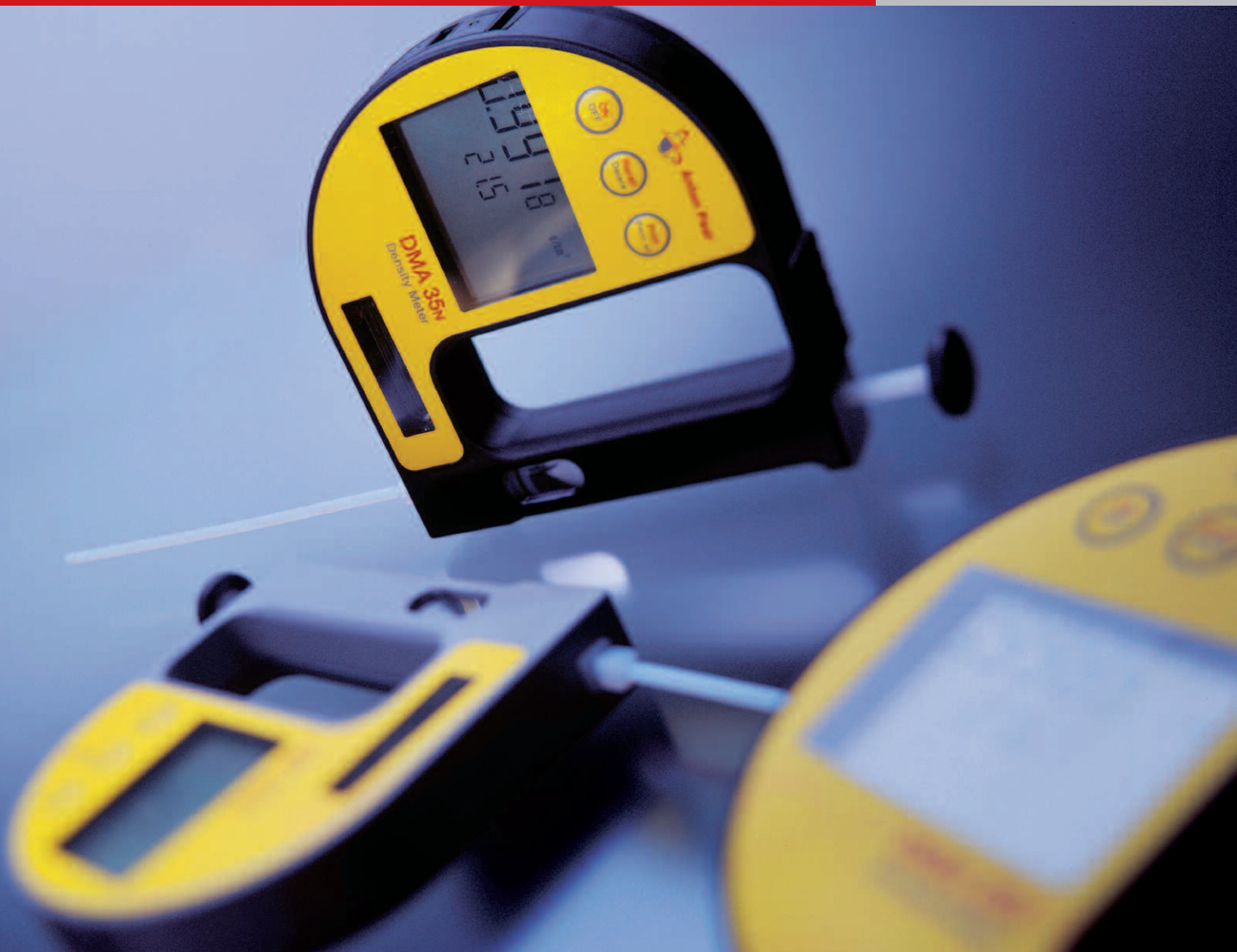


Anton Paar

DMA 35N

Portable Density, Specific
Gravity & Concentration Meter

::: Unique Density & Concentration Meters



DMA 35_N

Portability and Power

The new DMA 35_N handheld digital density meter defines the state of the art of portable density measurement. Designed for use in the most demanding industrial environments, the DMA35_N 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_N 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



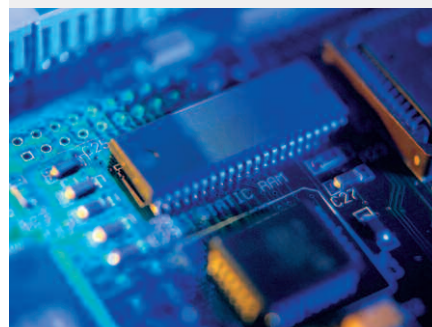
Pipette-style pump

- ▶ 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 the 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 new 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



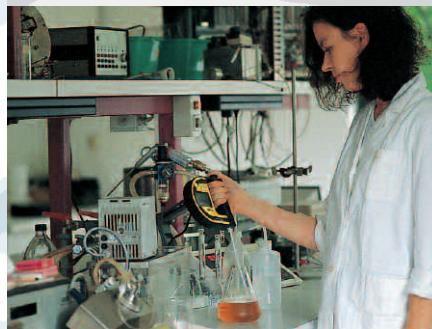
Battery acid concentration

- ▶ 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_N

- ▶ 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:  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:  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



Options

Available options are

- ▶ An RS 232 interface with infrared data port
- ▶ A dot matrix printer for RS 232 connection
- ▶ A rubber shock protector
- ▶ Elongated filling tube



Specifications

Measuring range	Density: 0 to 1.999 g/cm ³ Temperature: 0 to 40 °C (32 to 104 °F), filling at higher temperatures possible
Accuracy	Density: ±0.001 g/cm ³ Temperature: ±0.2 °C
Repeatability, s.d.	Density: 0.0005 g/cm ³ Temperature: 0.1 °C
Resolution	Density: 0.0001 g/cm ³ Temperature: 0.1 °C or 0.1 °F
Permanently stored tables and customer functions	°Brix, % Alcohol, Proof, °Baumé, °Plato, API gravity, API SG, API density, SG at ref. temp., % H ₂ SO ₄ , programmable customer functions
Data memory	1024 measuring values
Power supply	Two 1.5 V alkaline batteries (Micro LR03 AAA)
Sample volume	Approx. 2 ml
Dimensions	140 x 130 x 25 mm (5.5 x 5.1 x 1 inches)
Weight	275 g (10 ounces)
Interface	Optional RS 232 interface with infrared data port



Fotos: Croce Fotostudio



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Instruments for:

Density and
concentration measurement
Rheometry and viscometry
Sample preparation
Colloid science
Microhardness testing
X-ray structure analysis
CO₂ measurement
High-precision temperature
measurement

Specifications
subject to change
without notice

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