Portable density/specific gravity/concentration meter

DMA 35 Basic

DMA 35
Density measurement on the move

DMA 35 ...

… is Anton Paar's entry-level portable density meter which uses 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.

DMA 35 ...

… provides manual selection of sample IDs and methods, is the right choice for performing measurements with constant or only occasionally changing measurement settings. This basic model is an economic solution for general industrial and laboratory applications.

… talks the same language

Your DMA 35 communicates with you in a language you will understand immediately. The user interface is clearly arranged and you will intuitively find your way through the menu. The display backlight, which switches on automatically when a new sample is filled, makes sure you clearly see your measuring results even in dark surroundings. The seven large keys enable operation of the instrument even when wearing protective gloves.

… denies access to spills and humidity

The robust DMA 35 is designed to withstand the rough conditions of industrial and field applications. The leakproof sealed housing keeps humidity out of the electronics and stops pump spills entering the instrument.

… saves you time and energy

Once defined, you can choose between up to 20 different customized measuring methods and up to 100 sample IDs for easy identification of samples, users, or measuring locations. With a memory capacity for 1024 measurement results including timestamp and sample ID, DMA 35 is prepared for a long working day.

… uses wireless technology

DMA 35 prints your measuring results and exchanges data with your PC completely wireless via the integrated IrDA interface. Update your instrument with the latest firmware, export measuring data for archiving purposes, or simply write your method list and sample ID list on the PC and import it into your instrument via IrDA.

… works at the push of a button

Your sample is filled into the measuring cell of DMA 35 by simply pushing the lever on the built-in pump. DMA 35 measures the density of your sample or determines concentration using the preinstalled density/concentration tables. You also have the option of adding up to ten custom functions to the list of measuring units. This is useful if you measure specific samples regularly.

… lights up the cell

To obtain accurate measuring results it is essential that your sample is filled into the measuring cell without any gas bubbles. The measuring cell of DMA 35, visible from outside through an inspection window, is equipped with a backlight, making it easy for you to observe the filling process closely.

"We are confident in the high quality of our instruments. That's why we provide **full warranty for three years**."

All new instruments* include repair for 3 years.
You avoid unforeseen costs and can always rely on your instrument.
Alongside the warranty we offer a wide range of additional services and maintenance options.

*Due to the technology they use, some instruments require maintenance according to a maintenance schedule. Complying with the maintenance schedule is a prerequisite for the 3-year warranty.

Anton Paar
Certified Service

Technical specifications

Measuring range	Density: 0 g/cm³ to 3 g/cm³ Temperature: 0 °C to 40 °C (32 °F to 104 °F) Viscosity: 0 mPa·s to 1000 mPa·s
Accuracy	Density*: 0.001 g/cm³ Temperature: 0.2 °C (0.4 °F)
Repeatability	Density: 0.0005 g/cm³ Temperature: 0.1 °C (0.2 °F)
Resolution	Density: 0.0001 g/cm³ Temperature: 0.1 °C (0.1 °F)
Reproducibility, s.d.	Density: 0.0007 g/cm³
Ambient temperature**	-10 °C to +50 °C (14 °F to 122 °F)
Supported measuring units	Density, density @ xx °C, Specific Gravity (SG), alcohol %v/v, alcohol %w/w, alcohol US (°Proof), API Gravity, API SG, API Density, °Baumé, H_2SO_4 % w/w, H_2SO_4 @ 20 °C, °Brix, extract (°Plato), ten programmable custom functions
Data memory	1024 measurement results
Power supply	Two 1.5 V LR06 AA alkaline batteries
Sample volume	2 mL
Dimensions	140 mm x 138 mm x 27 mm (5.5 in x 5.4 in x 1.0 in)
Weight	345 g (12.2 ounces)
Interfaces	IrOBEX/IrLPT
Protection class	IP54
Available options	Elongated filling tube, transportation suitcase, portable thermal printer with IrDA interface, IrDA USB adapter, wristband, rubber housing

*Viscosity <100 mPa·s, density <2 g/cm³
**Sample must not freeze within the measuring cell!

Ideal for
use in the field

DMA 35 Basic is the entry-level digital density meter for applications where there is tight space or difficult-to-reach samples like battery racks in lead-acid battery production or storage barrels in wine and spirit production. Easy transporation is guaranteed as the instrument fits into every cargo pocket.