

## DMA 35 – PORTABLE HYDROMETER

### Product Description Hydrometer



The DMA 35 is the new generation of Anton Paar portable density meters, using the oscillating U-tube technology. The sample to be measured is filled into a U-shaped tube which is caused to vibrate. The resonance frequency of the fluid oscillation inside the U-tube is influenced by the mass and therefore by the density of the sample. The advantages of this measuring technique include both good repeatability and high precision.

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.

DMA 35 provides completely wireless communication with a printer or PC via the integrated IrDA interface.

## Technical Specifications

Product version	DMA 35	DMA 35 Tag&Log	DMA 35 Ex	DMA 35 Ex Petrol
Measuring range	Density: 0 to 3 g/cm <sup>3</sup> Temperature: 0 °C to 40 °C (32 to 104 °F) Viscosity: 0 to 1000 mPa·s			
Accuracy	Density*: 0.001 g/cm <sup>3</sup> Temperature: 0.2 °C (0.4 °F)			
Repeatability	Density: 0.0005 g/cm <sup>3</sup> Temperature: 0.1 °C (0.2 °F)			
Resolution	Density: 0.0001 g/cm <sup>3</sup> Temperature: 0.1 °C (0.1 °F)			
Ambient temperature**	-10 °C to +50 °C (14 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 <sub>2</sub> SO <sub>4</sub> % w/w, H <sub>2</sub> SO <sub>4</sub> @ 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 x 138 x 27 mm (5.5 x 5.4 x 1.0 inches)			
Weight	345 g (12.2 ounces)	351 g (12.4 ounces)	351 g (12.4 ounces)	396 g (14 ounces)
Interfaces	IrOBEX/IrLPT	IrOBEX/IrLPT, RFID	IrOBEX/IrLPT, RFID	IrOBEX/IrLPT, RFID
Protection class	IP54			
Available options	<ul style="list-style-type: none"> <li>- Elongated filling tube</li> <li>- Transportation suitcase</li> <li>- Portable thermal printer with IrDA interface</li> <li>- IrDA USB adapter</li> <li>- Wristband</li> <li>- Rubber housing</li> </ul>			

\*Viscosity < 100 mPa·s, density < 2 g/cm<sup>3</sup>  
\*\*Sample must not freeze within the measuring cell!

## Product codes

AK-DIG-DMA35      Portable Hydrometer  
 AK-DIG-DMA35-IR      Infrared USB adapter