

DMA 36 DIP IN density meter / Anton Paar K.G.

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DMA 36 DIP IN Density Meter



Density Probe

Display Unit

DESCRIPTION

The new DMA 36 DIP IN density meter incorporates a battery powered density measuring device based on the mechanical oscillator technique and a digital thermometer. Both the true density (density at actual temperature) and the temperature of the sample are shown on the display.

The probe – consisting of oscillator cell and temperature sensor – is connected to the display unit via a cable. The calibration constants for each specific oscillator are stored in the non volatile memory.

DMA 36 DIP IN

PRELIMINARY INFORMATION

APPLICATIONS

- In-situ density determination of liquids in containers and tanks
- Product identification
- Quality control
- Density profile measurement in containers and tanks

The parts of the probe in contact with the sample to be measured, are made of

- stainless steel (SS 304)
- Viton®
- glass (Duran 50®)
- PTFE

Do not immerse the probe into highly corrosive media such as

- acids
- substances containing halogens in solution
- hot liquors etc.

We recommend to check for corrosion on sample materials before measuring unknown or difficult liquids.

SPECIFICATIONS

Measuring range:

Density: 0.5 to 1.5 g/cm³
Temperature: -30 to +50 °C

Display:

Liquid crystal display.
Segment test is performed automatically after switch on.

Accuracy in density: ±0.001 g/cm³

Resolution
in temperature: 0.1 °C

Ambient temperature
of display unit: -10 to +60 °C

Sample temperature: -30 to +50 °C

The influence of the temperature coefficient of the measuring oscillator is automatically corrected.

Viscosity of sample: 0 to 15 mPas

Power supply: 9 V battery (Alkaline 6 LF 22)

Power consumption: 60 mW

Ambient pressure: 0 to 1 MPa

Pressure coefficient: +0.003 g/cm³ MPa

Recalibration: (Adjustment range ±0.008 g/cm³)
can be performed by measuring pure water.

Storage temperature: -10 to +60 °C

External dimensions:

Display unit: 80 x 280 x 40 (85) mm
Density probe: Ø 35 x 240 mm

Weight:

Display unit: 0.5 kg
Density probe: 0.3 kg

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DENSIMETERS AND OTHER SCIENTIFIC INSTRUMENTS

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