



## REF: DMA 35N DIGITAL DENSITY METER



## INTRODUCTION

The new DMA 35N handheld digital density meter defines the state of the art in portable density measurement. Designed for use in the most demanding industrial environments, the DMA 35N 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 familiar harmonic oscillator technology, the DMA 35N 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 instruments memory – up to 1024 data points – and can easily be transferred to a computer or printed later.

The DMA 35N is the result of many years of experience, brought together in the optimal portable package.

## FEATURES

- Ease of Use
  - Small, compact, light weight design
  - No arm fatigue, even when measuring hundreds of samples daily
  - Easily fits into tight spaces
  - Designed so that 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 instruments memory
  - Uses just two Micro LR03 1.5V AAA batteries
  - Up to 90 hours expected life per battery
  
- Rugged Design - Designed for use in industrial or field applications
  - Grip large enough for gloved hands
  - Pump spills do not enter instrument
  - Infrared data port replaces RS232 – no terminal corrosion and no openings where samples could leak into the instrument.

## APPLICATIONS

There are 2 versions of the DMA 35N:

- The standard instrument for use in the laboratory and for applications where no explosion protection is required. This is suitable for use in general industrial and laboratory environments
- An explosion proof version ( classification EEx ia IIC T6 ) with a special housing for the petrochemical industry, being especially resistant to petrols and similar organic solvents.

## SPECIFICATIONS

### Measuring range

Density: 0 to 1.999 g/cm<sup>3</sup>  
 Temperature: 0 to 40 °C (32 to 104 °F),  
 filling at higher temperatures possible

### Accuracy

Density: ±0.001 g/cm<sup>3</sup>  
 Temperature: ± 0.2 °C

### Repeatability

Density: ±0.0005 g/cm<sup>3</sup>  
 Temperature: ± 0.1 °C

### Resolution

Density: ±0.0001 g/cm<sup>3</sup>  
 Temperature: ± 0.1 °C or 0.1 °F

### Data Memory

1024 measuring values

### Power supply

Two 1.5 V alkaline batteries  
 ( Micro LR03 AAA )

### Sample Volume

Approx.: 2ml

### Weight / Dimensions

140 x 130 x 25 mm  
 (5.5 x 5.1 x 1 inches)  
 275 g ( 10 ounces )

## ORDERING INFORMATION

Ref: DMA 35N                      Digital Density Meter – Standard Version

Ref: DMA 35NEXP                Digital Density Meter – Explosion proof version for solvents

Owing to continuous development, we reserve the right to introduce improvements and modify specifications without prior notice.

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