



# PORTABLE / LABORATORY DENSITY METER

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**FOR LIQUEFIED PETROLEUM GASES (LPG)**

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**DM-250.3**

***IN PROCESS TO EXCELLENCE***

# Specifications

## Measuring range:

Density	0... 3 g/cm <sup>3</sup> (0... 3000 kg/m <sup>3</sup> )
Density Standard calibration	0.475... 1.0 g/cm <sup>3</sup> (475... 1000 kg/m <sup>3</sup> )
Temperature	-40... +85°C (-40... +185°F)

## Accuracy:

Density	±0.0003 or ±0.0005 g/cm <sup>3</sup> (±0.3 or ±0.5 kg/m <sup>3</sup> )
Temperature	±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)

## Repeatability:

Density	±0.00015 or ±0.00025 g/cm <sup>3</sup> (±0.15 or ±0.25 kg/m <sup>3</sup> )
Temperature	±0.1°C (±0.2°F)

## Resolution:

Density	0.0001 g/cm <sup>3</sup> (0.1 kg/m <sup>3</sup> )
Temperature	0.01°C (0.02°F)

## Supported measuring units

Real Density: g/cm<sup>3</sup>, kg/m<sup>3</sup>, lb/gal, lb/ft<sup>3</sup>; API; SG  
 Referred Density: at 15°C, 20°C, 60°F; API60; SG60  
 Tables ASTM D 1250  
 Temperature in °C or °F

Ambient temperature -40... +85°C (-40... +185°F)

Maximum Pressure 16 bar (1.6 MPa)

## Sensor:

Type	Vibrating element (Resonance principle)
Material	Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon

Power supply NiMH 3.6V-1500 mAh

Operating time without charging Appr. 12 hours

Continuous operating time No less than 10 hours

## Dimensions, weight:

Density Meter	245 x 225 x 120 mm (9.7 x 8.9 x 120 in) 5.5 kg (12.1 lb)
Transducer	180 x 85 x 40 mm (7.1 x 3.4 x 1.6 in) 0.7 kg (1.5 lb)

Connections Adapter ø6mm; other connections is customized

Temperature compensation Automatic

Sample volume 250 ml

## Data handling

Backlighted LCD display (2x16)  
 Local memory up to 1980 results with date/time stamped  
 Build in Bluetooth for data transfer to printer or PC  
 Optional Windows - based software

Delivery Delivered in compact carrying case

Data transmission to PC, pocket PC or portable printer via Bluetooth connection. Compatible for a Windows XP/Vista/7.

The operating principle of the LPGDi Density Meter is resonance method (vibrating element) of measurement. It is based on the changes of frequency of the measured liquid. Resonance technology used in LPGDi Density meter allows to achieve higher accuracy and stability of the measurement. The design of the device considerably simplifies sampling and sample preparation procedure. Readings on the LCD display ease the measuring process and eliminate eventual human error. WINDOWS based Software allows necessary data processing and simplifies operation for the staff.



## Advantages

- Direct density measurement
- Rigorous factory calibration and testing
- Automatic temperature compensation
- Small and compact
- Maintenance free
- Excellent correlation to ASTM D1657
- Readings on LCD
- Easy to operate
- Data transfer to PC

## Applications

- LPG filling stations
- LPG fiscal transfer
- LPG storage
- Petroleum industry
- Concentration control at outlets and delivery points



**For more information please visit [www.lemis-process.com](http://www.lemis-process.com)**



## USA

**LEMIS USA, Inc.**  
 2121 Golden Road, Suite 2A  
 The Woodlands  
 TX 77380, USA  
 Ph.: +1 281 465 8441  
 Fax: +1 281 465 8224

## EUROPE

**AS LEMIS Baltic**  
 26 Ganību dambis  
 Rīga, LV-1005  
 Latvia, EU  
 Ph.: +371 6738 3223  
 Fax: +371 6738 3270

## INDIA

**LEMIS India PVT LTD**  
 603, Platinum Technopark, Plot-17/18  
 Sector-30A, Vashi  
 Vashi - Navi Mumbai. 400705, INDIA  
 Ph.: +91 22 6721 5655  
 Fax: +91 22 6794 2666

**E-mail: [info@lemis-process.com](mailto:info@lemis-process.com)**