



**250 SERIES**



**PORTABLE DENSITY METER**

**DM-250.1**

***IN PROCESS TO EXCELLENCE***

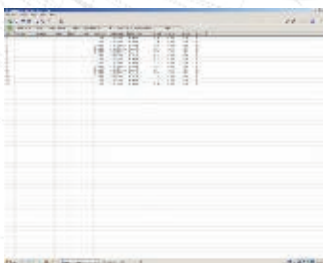
# Specifications

<b>Measuring range:</b>	
Density	0... 3 g/cm <sup>3</sup> (0... 3000 kg/m <sup>3</sup> )
Density Standard calibration	0.6... 1.2 g/cm <sup>3</sup> (600... 1200 kg/m <sup>3</sup> ) 0.9... 1.8 g/cm <sup>3</sup> (900... 1800 kg/m <sup>3</sup> )
Temperature	-40... +85°C (-40... +185°F)
<b>Accuracy:</b>	
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)
<b>Repeatability:</b>	
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)
<b>Resolution:</b>	
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 Alcohol Tables Temperature in °C or °F
Ambient temperature	-40... +85°C (-40... +185°F)
Depth of submersion	Up to 6 meters (20 ft.)
<b>Sensor:</b>	
Type	Vibrating element (Resonance principle)
Material	Stainless steel SS 316 L; NiSpan C; Hastelloy C22
<b>Intrinsically safe:</b>	
Controller	ATEX II (2G) EEx ib [ia] IIB T4
Sensor	ATEX II 1G EEx ia IIB T4
Power supply	NiMH 3.6V-1500 mAh
Operating time without charging	Appr. 12 hours
<b>Dimensions, weight:</b>	
Controller	180 x 80 x 40 mm (7.1 x 3.2 x 1.6"), 0.6 kg (1.3 lb)
Sensor	220 x ø42 mm (8.7 x ø1.7"), 1 kg (2.2 lb)
Temperature compensation	Automatic
Viscosity compensation	Automatic
Data handling	Backlighted LCD display (2x16) Local memory up to 2000 results Build in Bluetooth for data transfer to printer or PC Optional Windows - based software
Delivery	Delivered in compact carrying case

Able to download the measurements to PC;  
Multifunctional software allows to proceed the  
measurements results in user-convenient form;  
Compatible for a Windows XP/Vista/7.

Immediate printout of the measurements;  
No need for PC.

Remote data transfer;  
Useful in field conditions;  
Software for data processing.



SOFTWARE



BLUETOOTH PRINTER



POCKET PC

## Advantages

- Direct density measurement
- Record spot density and average per tank
- Automatic temperature compensation
- No sampling required
- ATEX, IEC Hazloc certification
- Safe operation, low maintenance
- At any depths up to 6 meters
- Economical and easy to operate
- Measures highly viscous liquids up to 2000 cP
- Rigid construction for heavy duty outdoor operation
- Local results storage and Bluetooth data transfer

## Applications

- Petroleum industry
- Ethanol production
- Food & Beverages
- Chemical industry
- Cosmetic industries
- Pharmaceutical industry

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



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