



**250 SERIES**



**DIGITAL PORTABLE SUBMERSIBLE**

**DENSITY/SPECIFIC GRAVITY/CONCENTRATION METER**

**DM-250.2**

**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	0.6... 1.2 g/cm <sup>3</sup> (600... 1200 kg/m <sup>3</sup> )
Temperature	-40... +85°C (-40... +185°F)
Level	Up to 30 m (up to 1 181 in)
<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	±0.2°C (±0.4°F)
Level	±0.1 m (±3.9 in)
<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)
Level	±0.05 m (±2 in)
<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)
Level	0.1 m (3.9 in)
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 Alcohol tables Temperature in °C or °F
Ambient temperature	-40... +85°C (-40... +185°F)
Depth of submersion	Up to 30 meters
<b>Intrinsically safe:</b>	
Controller	ATEX II (2G) EEx ib [ia] IIB T4
Level block with sensor	ATEX II 1G EEx ia IIB T4
Power supply	2 x NiMH 3.6V-1200 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 in), 0.6 kg (1.3 lb)
Level block with sensor	420 x 245 x 140 mm, (16.5 x 9.7 x 5.5 in), 4 kg (8.8 lb)
Temperature compensation	Automatic
Viscosity compensation	Automatic
Data handling	Backlighted LCD display Local memory for 998 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

Able to download the measurements to PC;  
Multifunctional software allows to proceed the  
measurements results in user-convenient form;  
Compatible for a Windows 98/ME/2000/NT/XP.

Immediately printout 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 and level measurement
- Record spot density, average per tank and depth of the sensor embedding
- Automatic temperature/viscosity compensation
- No sampling required
- ATEX Hazloc certification
- Safe operation, low maintenance
- At any depths up to 30 meters
- They're 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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