



PORTABLE DENSITY METER

DM-250.1

IN PROCESS TO EXCELLENCE

Specifications

Measuring range:

Density	0... 3 g/cm ³ (0... 3000 kg/m ³)
Density Standard calibration	0.6... 1.2 g/cm ³ (600... 1200 kg/m ³)
	0.9... 1.8 g/cm ³ (900... 1800 kg/m ³)
Temperature	-40... +85°C (-40... +185°F)

Accuracy:

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

Repeatability:

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

Resolution:

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

Supported measuring units

Real Density: g/cm³, kg/m³, lb/gal, lb/ft³; 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.)

Sensor:

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

Intrinsically safe:

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

Dimensions, weight:

Controller	180 x 80 x 40 mm (7.1 x 3.2 x 1.6"), 0.6 kg (1.3 lb)
Sensor	220 x ø45 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 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

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

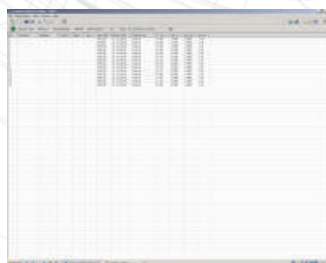
Applications

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

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

For more information please visit www.lemis-process.com



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