LEMIS process

250 SERIES



PORTABLE DENSITY METER

DM-250.1

IN PROCESS TO EXCELLENCE

Specifications

Measuring range:	
Density	0… 3 g/cm³ (0… 3000 kg/m³)
Density Standard calibration	0.6… 1.2 g/cm³ (600… 1200 kg/m³) 0.9... 1.8 g/cm³ (900... 1800 kg/m³)
Temperature	-40… +85°C (-40... +185°F)
Accuracy:	
Density	±0.0003 or ±0.0005 g/cm³ (±0.3 or ±0.5 kg/m³)
Temperature	±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)
Repeatability:	
Density	±0.00015 or ±0.00025 g/cm³ (±0.15 or ±0.25 kg/m³)
Temperature	±0.1°C (±0.2°F)
Resolution:	
Density	0.0001 g/cm³ (0.1 kg/m³)
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

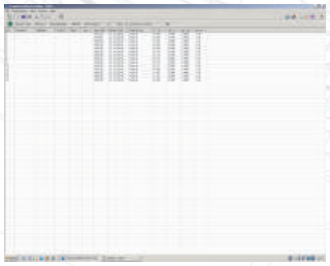
Advantages

- Direct density measurement
- Record spot density and average per tank
- Automatic temperature compensation
- No sampling required
- ATEX, IEC Hazloc certifcation
- 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.



SOFTWARE

Immediate printout of the measurements;
No need for PC.



BLUETOOTH PRINTER

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



POCKET PC

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

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

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