



Unique
resonant tube
technology

High
accuracy

Simple
operation

Easy cleaning

PORTABLE / LABORATORY DENSITY METER

➔ *Specific Gravity* ➔ *API Gravity* ➔ *Concentration*

TIME-PROVED TECHNOLOGY

Specifications

Density Range	0 to 3 g/cm ³
Density Accuracy	±0.0002 g/cm ³ ±0.0005 g/cm ³ ±0.001 g/cm ³
Temperature Range	0°C to +50°C (+32°F to +122°F)
Temperature Accuracy	±0.1°C (±0.2°F)
Data Handling	Back lighted LCD 4 x 20
Ambient Temperature Range	+10°C to +40°C (+50°F to +104°F)
Sensor Material	Stainless steel 316L; Ni-Span C; Hastelloy C22
Power Supply	110-220V AC
Data Transfer	Bluetooth
Viscosity Effect	Automatically compensated
Quality Assurance	ISO 9001:2000
Factory Calibration	Calibration certificates supplied as standard
CE Mark	Compliant EN 61326 ; EN5011 ; EN 50082-2
Housing Dimensions (L x W x H)	140 x 100 x 290 mm (5.5 x 3.9 x 11.4 in)
Weight	approx. 2 kg (approx. 4.4 lb)

Applications

- Products consistency and adulteration check
- Molasses density control in ethanol production
- Chemical, cosmetic, pharmaceutical industries
- Petroleum industry
- Food, milk and dairy products
- % alcohol check in beverages industry
- Density control at outlets and delivery points

Advantages

- Direct density measurement
- Automatic temperature compensation
- Rigorous factory calibration and testing
- Small and compact
- Maintenance free

Principle of operation

The operating principle is resonant method (vibration element) of measurement. It is based on the changing of frequency characteristics of the sensitive unit and resistance of the built-in temperature sensor in dependence of characteristics of the measured liquid.

Resonant tube technology implemented in DM-300 density meter achieves higher accuracy and stability of the measurements.

Design of the device considerably simplifies sampling and sample preparing procedure. Operator does not need any plastic syringes and other special laboratory glassware! Measuring chamber is especially designed for very viscous liquids. Cleaning procedure is shortened for more than 2 times comparing to similar class devices!



Data transmission to PC or portable printer via Bluetooth connection

For more information, please, visit www.lemis-instruments.com



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