



LOW FLOW RATE

DENSITY METER

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

IN PROCESS TO EXCELLENCE

Specifications

Density Range	0.5 to 2 g/cm ³
Density Accuracy	±0.00025 g/cm ³ ±0.0005 g/cm ³ ±0.001 g/cm ³
Viscosity Effect	Automatically compensated
Pressure Range	0 to 10 Bar
Temperature Range	-20°C to +100°C (-4°F to +212°F)
Temperature Accuracy	±0.1°C (±0.2°F)
Process Connection	Swage nipple PN 06HB02 VA 1/8"-6
Flow Range	10 to 100 L/h
Data Handling	Back lighted LCD 4 x 20
Ambient Temperature Range	-20°C to +50°C (-4°F to +122°F)
Weather Rating	IP65
Sensor Material	Stainless steel 316L; Ni-Span C; Hastelloy C22
Power Supply	24V AC
Analog Output	4 - 20 mA
Digital Output	RS 485; Modbus
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)	200 x 174 x 91 mm (7,9 x 6,9 x 3,6 in)
Weight	approx. 3 kg (approx. 6,6 lb)

Advantages

- Continuous measurements
- Easy cleaning
- High accuracy
- Simple installation
- Suitable for very viscous liquids
- Wide range of applications
- Compact design
- Automatic temperature compensation
- Rigorous factory testing

Applications

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

Principle of operation

LEMIS process uses the proven vibrating element technology which is widely accepted as the most accurate of continuous density measurement. It is based on the frequency changing of the sensitive unit and resistance of the built-in temperature sensor in dependence of characteristics of measured liquid. The oscillation period of the sensitive unit mainly depends on density and temperature of measured liquid.

Continuous monitoring optimizes, controls and manages the processes. DC-30 series has a variety of applications, where low flow rate does not allow to install standard high flow systems. PC connection allows distance control for the most critical parameters in such processes as organic synthesis and chemical reactions in reactors.



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



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