

DC-30 SERIES



DENSITY METER

FOR LOW FLOW RATE

DC-30

IN PROCESS TO EXCELLENCE

Specifications

Measuring range: Density Temperature	0.5 2 g/cm³ (500 2000 kg/m³) -20°C to +100°C (-4°F to +212°F)
Accuracy: Density	Up to $\pm 0.00025~{\rm g/cm^3}$ (up to $\pm 0.25~{\rm kg/m^3}$) Up to $\pm 0.0005~{\rm g/cm^3}$ (up to $\pm 0.5~{\rm kg/m^3}$) Up to $\pm 0.001~{\rm g/cm^3}$ (up to $\pm 0.1~{\rm kg/m^3}$)
Temperature	±0.1°C (±0.2°F)
Repeatability:	
Density	Up to ± 0.000125 g/cm³ (up to ± 0.125 kg/m³) Up to ± 0.00025 g/cm³ (up to ± 0.25 kg/m³)
	Up to ± 0.0005 g/cm ³ (up to ± 0.5 kg/m ³)
Temperature	±0.1°C (±0.2°F)
Resolution:	
Density	0.0001 g/cm³ (0.1 kg/m³)
Temperature	0.01°C (0.02°F)
Flow Range	10 to 100 L/h
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 D1250 Alcohol tables Temperature in °C or °F
Ambient temperature	-20°C to +50°C (-4°F to +122°F)
Operating pressure	Up to 10 Bar (Up to 145 psi)
Materials: Sensor	Stainless steel SS 316 L; NiSpan C; Hastelloy C22
Weather rating	IP65
Power supply	24V AC
Digital output	Standard: RS485, Modbus, Analog 4-20mA
7 % A	

4-20 mA

Automatic

Automatic

ISO 9001:2000

200 x 174 x 91 mm (7,9 x 6,9 x 3,6 in)

Swage nipple PN 06HB02 VA 1/8"-6

Compliant EN 61326; EN 5011; EN 50082-2

Calibration certificates supplied as standard

approx. 3 kg (approx. 6,6 lb)

Black lighted LCD 4x20

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



Factory calibration Principle of operation

Analog output

Dimensions, weight

Weight

Process connection

Data Handling

Quality Assurance

CE mark

Temperature compensation
Viscosity compensation

Housing Dimensions

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



USA LEMIS USA, Inc. 15556 Summit Park Dr. Suite 601 Montgomery TX 77356, USA Ph.: +1 281 465 8441

EUROPE AS LEMIS Baltic

26 Ganibu dambis Riga, LV-1005 Latvia , EU Ph.: +371 6738 3223

Fax: +371 6738 3270

INDIA LEMIS India PVT LTD

504,Bhumiraj Costarica,5th floor Plot 1&2, Sector 18, Sanpada Navi Mumbai-400705, INDIA Ph.: +91 22 6721 5655 Fax: +91 22 6794 2666

E-mail: info@lemis-process.com