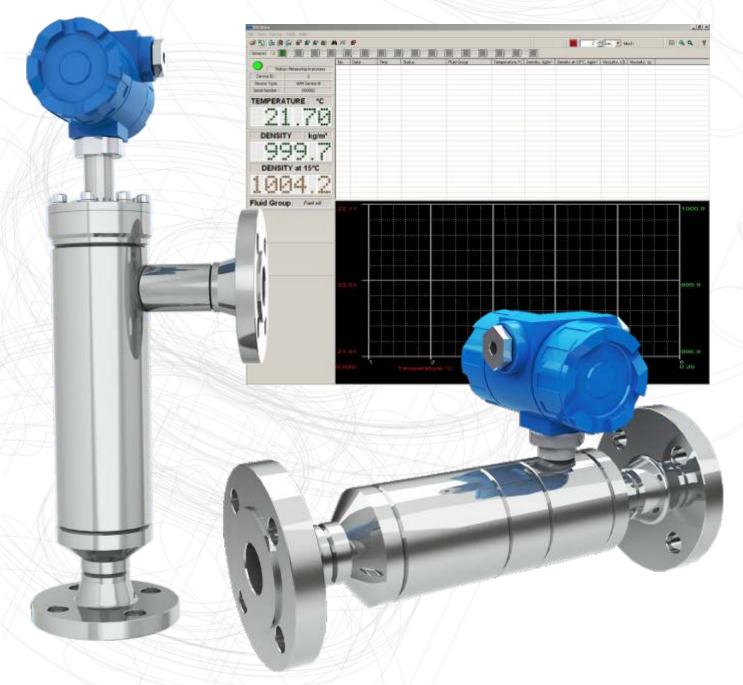


50 SERIES



DENSITY METER

DC-50

IN PROCESS TO EXCELLENCE

50 SERIES

Specifications

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 $\begin{array}{lll} \text{Density} & 0 \dots 3 \text{ g/cm}^3 \ (0 \dots 3000 \text{ kg/m}^3) \\ \text{Density NG, PG, LNG} & 0 \dots 0.4 \text{ g/cm}^3 \ (0 \dots 400 \text{ kg/m}^3) \\ \text{Density LPG} & 0.4 \dots 0.65 \text{ g/cm}^3 \ (400 \dots 650 \text{ kg/m}^3) \\ \text{Density Standard} & 0.65 \dots 1.6 \text{ g/cm}^3 \ (650 \dots 1600 \text{ kg/m}^3) \\ \text{Temperature} & -200 \dots +200^{\circ}\text{C} \ (-328 \dots +392^{\circ}\text{F}) \end{array}$

Accuracy:

Density Up to ± 0.0001 g/cm³ (up to ± 0.1 kg/m³) Temperature ± 0.2 °C (± 0.4 °F)

Repeatability:

Density Up to ± 0.00002 g/cm³ (up to ± 0.02 kg/m³) Temperature ± 0.1 °C (± 0.2 °F)

Resolution:

NPT 1/2", 3/4", 1"
Process connection
ANSI 1/2", 1", 2", 3", 4"
DN 10, 15, 25, 50, 80, 100

Operating pressure Up to 100 Bar (up to 1450 psi)

Real density: g/cm³, kg/m³, lb/gal, lb/ft³; API; SG

Referred density: at 15°C, 20°C, 60°F; API60; SG60 Supported measuring units Tables ASTM D1250

> Alcohol tables Temperature in °C or °F

Ambient temperature -40... +85°C (-40... +185°F)

Weather rating IP68 for sensor and IP65 for other parts

Materials:

Sensor Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon Other Wetted Parts Stainless steel SS316 L or Hastelloy C22

Electronics Housing Aluminum, blue epoxy finish

Power voltage:

Device 110-230V AC (50-60 Hz) or 24V DC (16-28V DC) Sensor 6-14V DC (30 mA)

Implosion protection marking ATEX II 1/2G Ex ia IIB T4; IECEx Ex ia IIB T4 Ga /Gb; CCE

Digital output Standard: RS485, Modbus; user choice of signals and protocols

Analog output 4-20 mA, up to 3 channels

Temperature compensation Automatic

Viscosity compensation Automatic

Factory calibration Calibration certificates supplied as standard

DC-50 S-type







Advantages

- Continuous measurements
- High accuracy
- Simple installation
- Suitable for very viscous liquids
- Wide range of applications
- Safe operation, low maintenance
- Easy cleaning
- Rigorous factory testing
- Compact design
- Automatic viscosity/temperature compensation

Applications

- Petroleum industry
- Ethanol production
- Food & Beverages
- Chemical industry
- Cosmetic industries
- Process monitoring and control

Software

- Receiving of density and temperature values from Terminal Box via cable
- Calculating of relative/referred density of product on the base of built-in tables
- Various formats for data reading
- Storage of the measured and calculated values in the database tables
- Conversation of the database tables to EXCEL format and printing the results
- Up to 16 sensors monitoring (another sensors quantity is optional)

DC-50 T-type



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



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