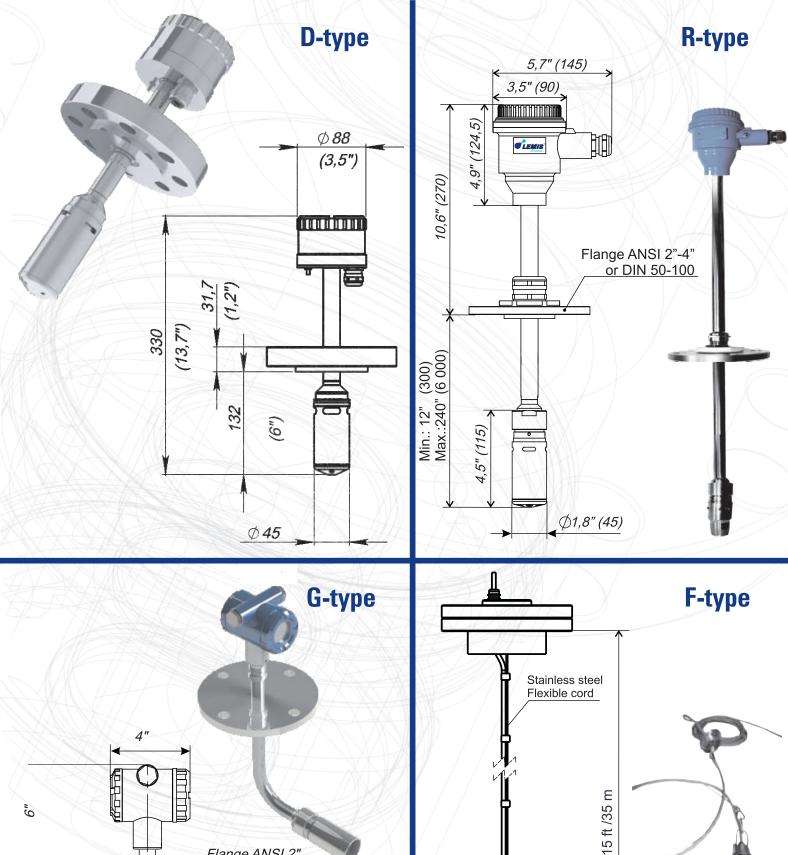
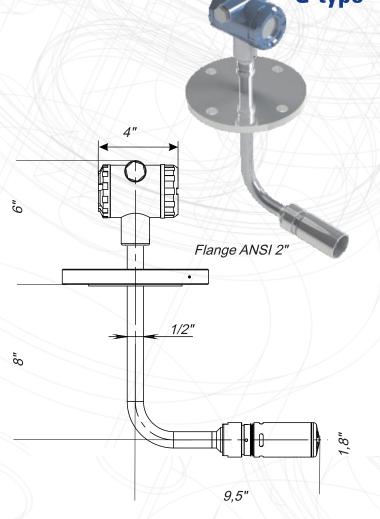


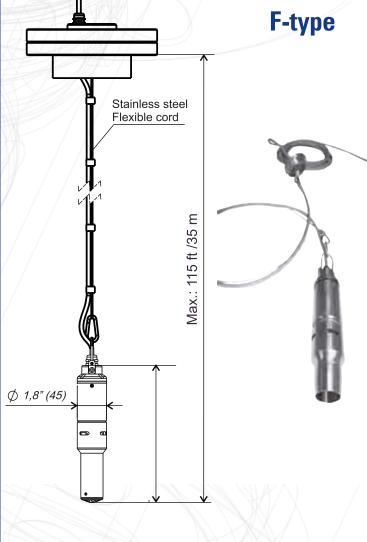
## **DENSITY METER**

**DC-40** 

IN PROCESS TO EXCELLENCE







# Specifications

Measuring range: Density Density Standard calibration Temperature	0 3 g/cm³ (0 3000 kg/m³) 0.6 1.2 g/cm³ (600 1200 kg/m³) -200 +200°C (-328 +392°F)
Accuracy: Density	±0.00025 g/cm³ (±0.25 kg/m³)
Temperature	±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)
Repeatability: Density Temperature	±0.0001 g/cm³ (±0.1 kg/m³) ±0.1°C (±0.2°F)
Resolution: Density Temperature	0.0001 g/cm³ (0.1 kg/m³) 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 Temperature in °C or °F Alcohol tables
Temperature compensation	Automatic
Viscosity compensation	Automatic
Maximum Pressure	100 bar (10 MPa)
Installation types: D-type R-type F-type	Direct insertion Long rigid immersion Flexible
Process Connections	Large selection of flanges available
Ambient temperature	-40 +85°C (-40 +185°F)
Weather rating	IP67 for sensor and IP 55 fo Terminal box
Materials:	
Sensor Other Wetted Parts Electronics Housing	Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon Stainless steel SS316 L or Hastelloy C22 Aluminum, blue epoxy finish
Electrical Connections	Screw terminals; Cable entry: 2 x 3/4" NPT
Power supply	6-12 VDC 30 mA (60 mA pick)
Output:	
Sensor Analog Digital	Line density and temperature digital signals  Up to 3x isolated 4-20 mA, direct or reverse-acting, configurable Standard: RS485, Modbus; user choice of signals and protocols
Factory calibration	Calibration certificates supplied as standard
CE mark	Compliant EN 61326; EN 5011; EN 50082-2
Implosion protection marking	ATEX II 1/2G Ex ia IIB T4; IECEx Ex ia IIB T4 Ga /Gb; CCE

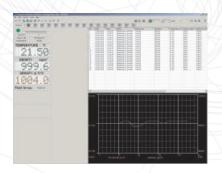
#### **APPLICATIONS**

- Density, temperature and concentration monitoring in storage tanks
- · Petroleum products, fuels, lubricants, LPG, LNG
- Concentrations of acids or corrosive chemical
- Food, Dairy & Beverages
- Products identification and consistency
- Concentration and dilution measurements
- Monitoring of reaction end in reactors
- In-tank mixing and blending

#### **ADVANTAGES**

- Continuous, online density monitoring at process conditions
- Accurately measures density of liquids with viscosity up to 2000 cSt
- Rigorous factory calibration and testing of the transducer
- Can operate in pressurized tanks
- Immersion in the tanks up to 30 meters
- No moving parts, virtually maintenance free system
- We also can tune system specification for your specific requirements
- Hazardous area approvals
- Insensitive to liquid level, mix or turbulence
- Large offer of standard product configurations and installation available

Able to connect device to PC; Multifunctional software allows to proceed the measurements results in user-convenient form; Compatible for a Windows XP/Vista/7.







Calibration of **LEMIS** process density meters are performed inhouse according ISO 9001:2000 quality assurance program and by using calibration materials that are traceable to national standards. Inhouse calibration and testing is performed specified dedicated calibration protocol for every standard model of the sensor. For most applications, on-site calibration is generally not required. **LEMIS** process sensors allows simple, switch-and-go field installation.

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



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