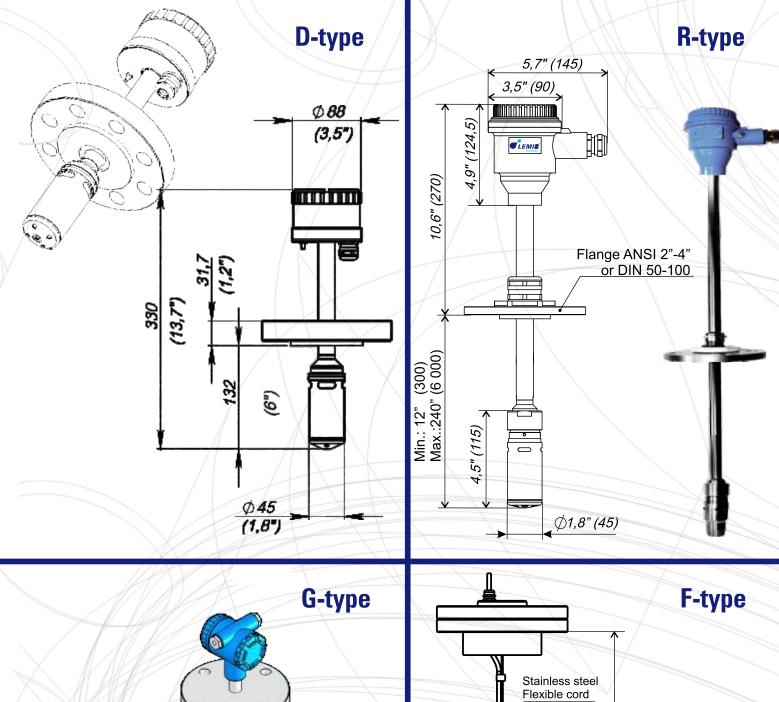
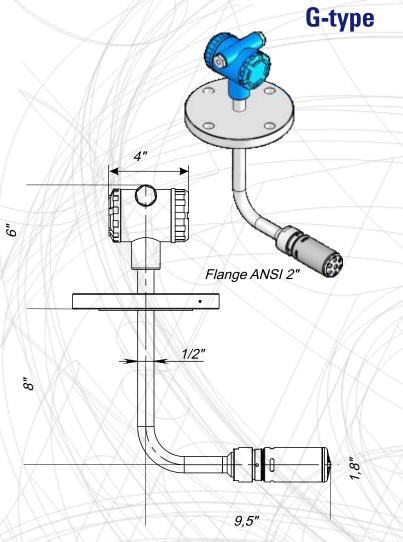
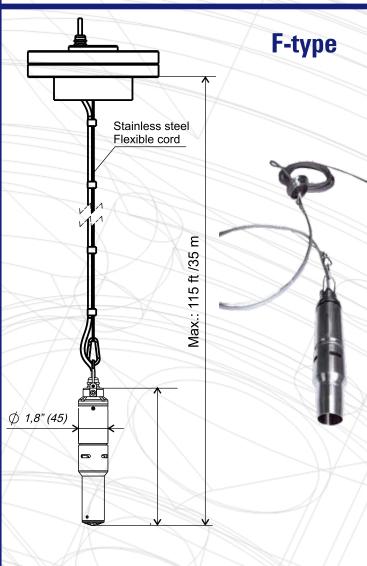


IN PROCESS TO EXCELLENCE







# **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 Temperature	Up to ±0.0001 g/cm³ (up to ±0.1 kg/m³) ±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)
Repeatability: Density Temperature	Up to ±0.00002 g/cm³ (up to ±0.02 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
Materials:	11 07 101-301301
Sensor Other Wetted Parts Electronics Housing	Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; Titanium 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	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
Digital	otalidara: 110 100, Modbas, asci officios of signals and protocols
	Calibration certificates supplied as standard
Digital	

#### **APPLICATIONS**

- Density, temperature and concentration monitoring in storage tanks
- Petroleum products, fuels, lubricants, LPG, LNG
- Concentrations of acids or corrosive chemical
- Food, Dairy & Beverages
- Product identification and consistency
- Concentration and dilution measurement
- 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 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/7/8/10.









Calibration of **LEMIS process** density meters are performed in-house according ISO 9001:2000 quality assurance program and by using calibration materials that are traceable to national standards. In-house 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-usa.com



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