

40 SERIES

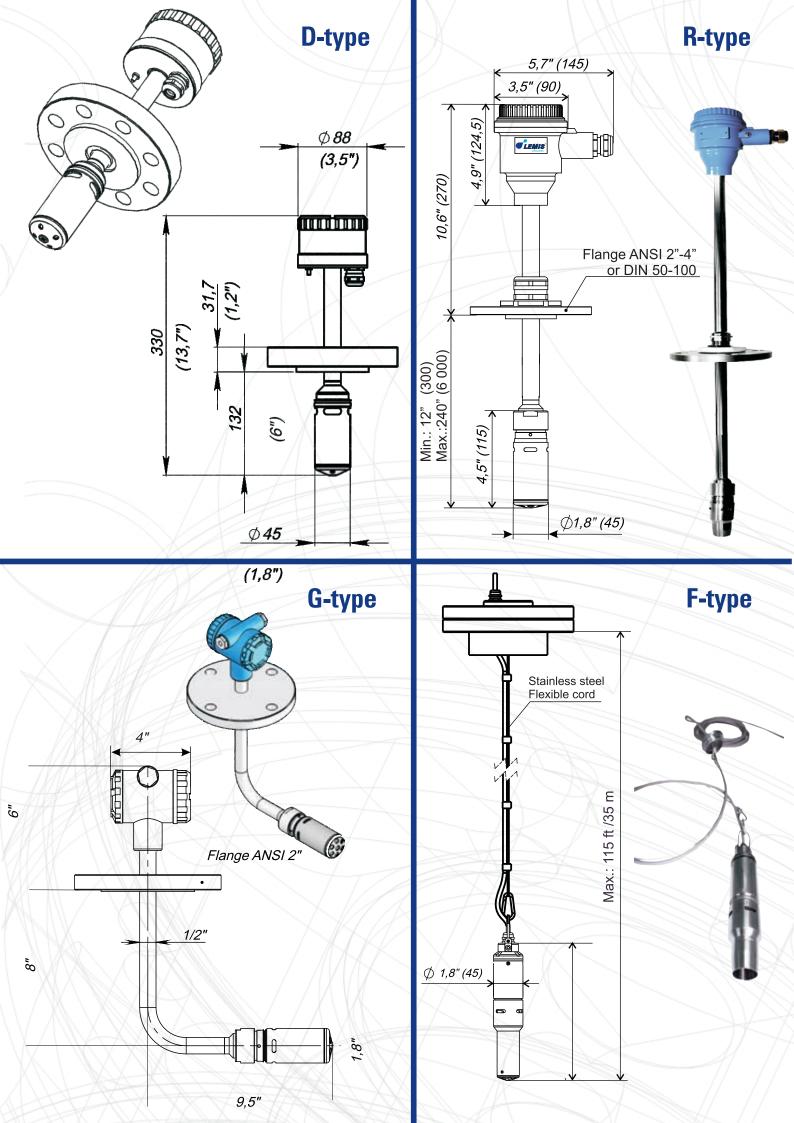




VISCOMETER

DC-40

IN PROCESS TO EXCELLENCE



Specifications

Other Wetted Parts Electronics Housing 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, configurations.	•	
Density Temperature	Density Density Standard calibration	0.6 1.2 g/cm ³ (600 1200 kg/m ³)
Repeatability: Density Temperature O.0001 g/cm³ (0.1 kg/m³) O.01°C (0.02°F) 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 Maximum Pressure Direct insertion Automatic Installation types: Direct insertion Flexible Process Connections Large selection of flanges available Ambient temperature -40 +50°C (-40 +122°F) Weather rating IP67 for sensor and IP 55 fo Terminal box Materials: Sensor Other Wetted Parts Electronics Housing Electrical Connections Screw terminals; Cable entry: 2 x 3/4" NPT Power supply G-12 VDC 30 mA (60 mA pick) Output: Sensor Analog Digital Standard: RS485, Modbus; user choice of signals and proto	Density	±0.00025 g/cm³ (±0.25 kg/m³) ±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)
Density Temperature 0.001 g/cm³ (0.1 kg/m³) 0.01°C (0.02°F) 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 Maximum Pressure 100 bar (10 MPa) Installation types: D-type R-type F-type F-type F-type Flexible Process Connections Ambient temperature -40 +50°C (-40 +122°F) Weather rating Materials: Sensor Other Wetted Parts Electronics Housing Electrical Connections Screw terminals; Cable entry: 2 x 3/4" NPT Power supply 6-12 VDC 30 mA (60 mA pick) Output: Line density and temperature digital signals Analog Digital Connection of signals and proto	Repeatability: Density	±0.0001 g/cm³ (±0.1 kg/m³) ±0.1°C (±0.2°F)
Supported measuring units 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 Maximum Pressure D-type R-type F-type Process Connections Ambient temperature Process Connections Ambient temperature Prof for sensor and IP 55 fo Terminal box Materials: Sensor Other Wetted Parts Electronics Housing Electrical Connections Screw terminals; Cable entry: 2 x 3/4" NPT Power supply Output: Sensor Analog Digital Referred Density: at 15°C, 20°C, 60°F; API60; SG60 Tables ASTM D 1250 Temperature in °C or °F Alcohol tables Automatic Pour of Palcohol tables Automatic Automatic Direct insertion Automatic Automatic Pour of Palcohol tables Automatic Automatic Direct insertion Automatic Long rigid immersion Flexible Large selection of flanges available Ambien temperature Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T Stainless steel SS 316 L; NiSpan C; Hastell	Resolution: Density	
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Installation types: D-type R-type R-type F-type Process Connections Ambient temperature Perocess Connections IP67 for sensor and IP 55 fo Terminal box Materials: Sensor Other Wetted Parts Electronics Housing Electrical Connections Screw terminals; Cable entry: 2 x 3/4" NPT Power supply Output: Sensor Analog Digital Long rigid immersion Flexible Long valuable Large selection of flanges available -40 +50°C (-40 +122°F) Weather rating Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; To Stainless steel SS316 L or Hastelloy C22, Teflon; To 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) Up to 3x isolated 4-20 mA, direct or reverse-acting, configuents Sensor Analog Digital Standard: RS485, Modbus; user choice of signals and protocents Screw terminals; Cable entry: 2 x 3/4" NPT Sensor Analog Digital	Viscosity compensation	Automatic
D-type R-type R-type F-type Flexible Process Connections Large selection of flanges available Ambient temperature -40 +50°C (-40 +122°F) Weather rating IP67 for sensor and IP 55 fo Terminal box Materials: Sensor Other Wetted Parts Electronics Housing 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 Standard: RS485, Modbus; user choice of signals and proto	Maximum Pressure	100 bar (10 MPa)
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Ambient temperature -40 +50°C (-40 +122°F) Weather rating IP67 for sensor and IP 55 fo Terminal box Materials: Sensor Other Wetted Parts Electronics Housing Electrical Connections Screw terminals; Cable entry: 2 x 3/4" NPT Power supply G-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, configuents Standard: RS485, Modbus; user choice of signals and protoces.	Process Connections	
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Sensor Other Wetted Parts Electronics Housing Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; T 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, configurations of the standard: RS485, Modbus; user choice of signals and proton	Weather rating	IP67 for sensor and IP 55 fo Terminal box
Power supply 6-12 VDC 30 mA (60 mA pick) Output: Sensor Analog Digital Standard: RS485, Modbus; user choice of signals and proto	Sensor Other Wetted Parts	Stainless steel SS 316 L; NiSpan C; Hastelloy C22; Teflon; Titanium Stainless steel SS316 L or Hastelloy C22
Power supply 6-12 VDC 30 mA (60 mA pick) Output: Sensor Analog Digital Sensor Analog Standard: RS485, Modbus; user choice of signals and proto	Electrical Connections	Screw terminals; Cable entry: 2 x 3/4" NPT
Output: Sensor Analog Digital Line density and temperature digital signals Up to 3x isolated 4-20 mA, direct or reverse-acting, configuent Standard: RS485, Modbus; user choice of signals and proto	44 44 44 44 44 44 44 44 44 44 44 44 44	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
CE mark Compliant EN 61326 ; EN 5011 ; EN 50082-2	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	Implosion protection marking	A A A A A A A A A A A A A A A A A A A

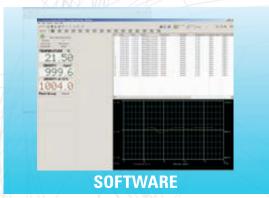
APPLICATIONS

- 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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