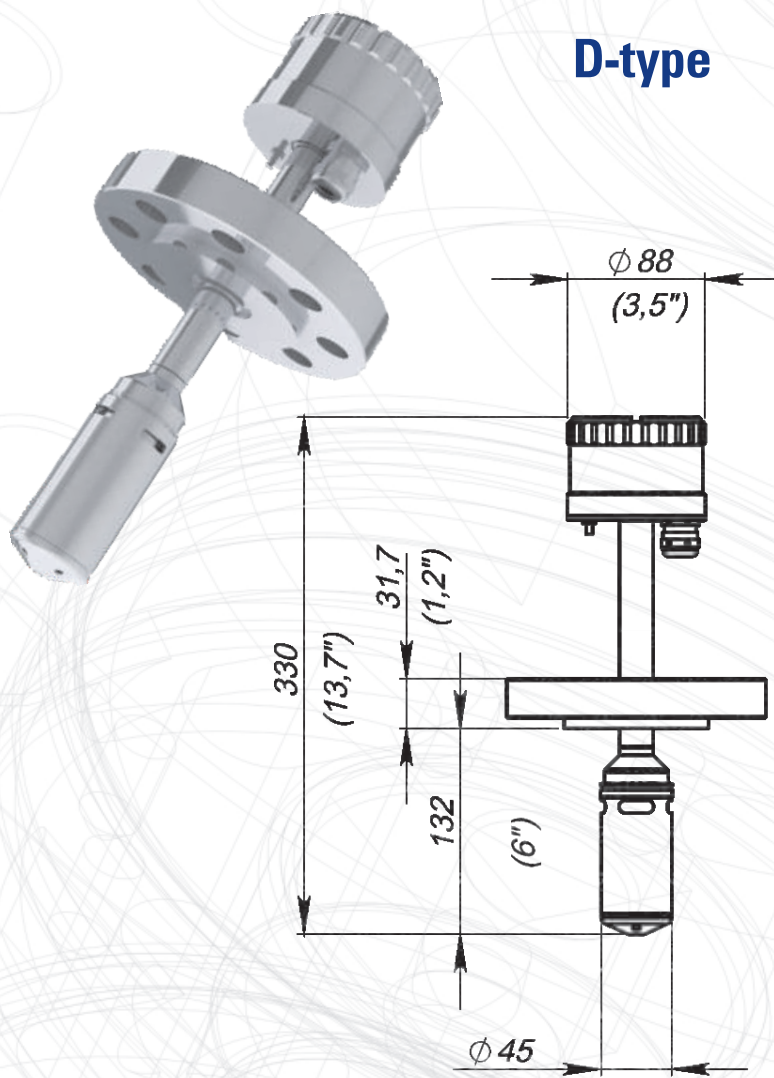


VISCOMETER

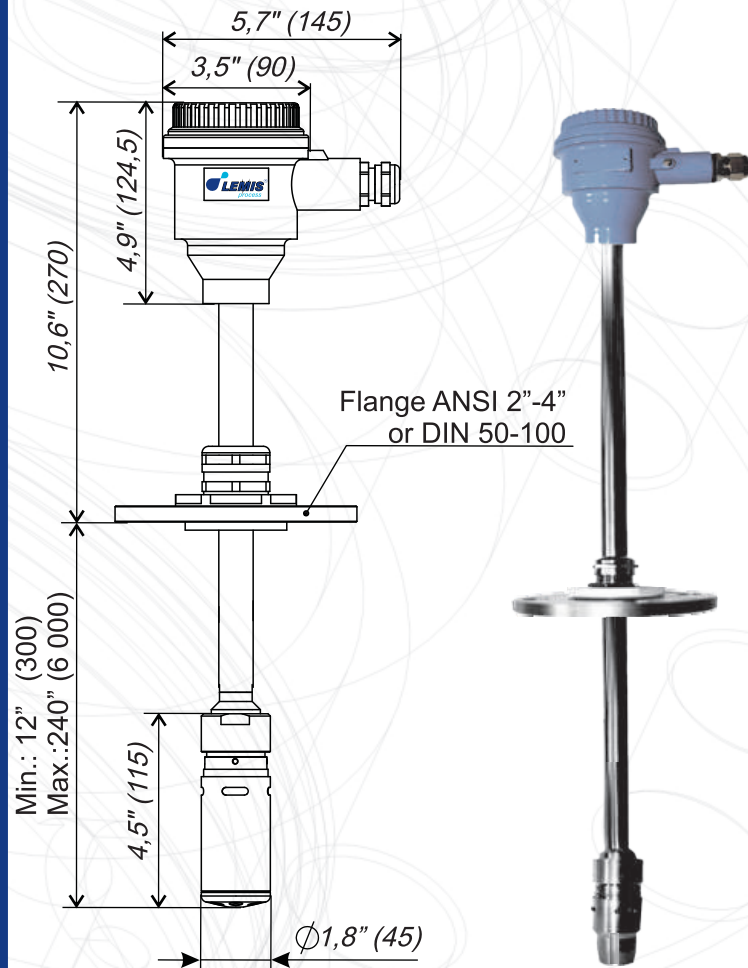
DC-41

IN PROCESS TO EXCELLENCE

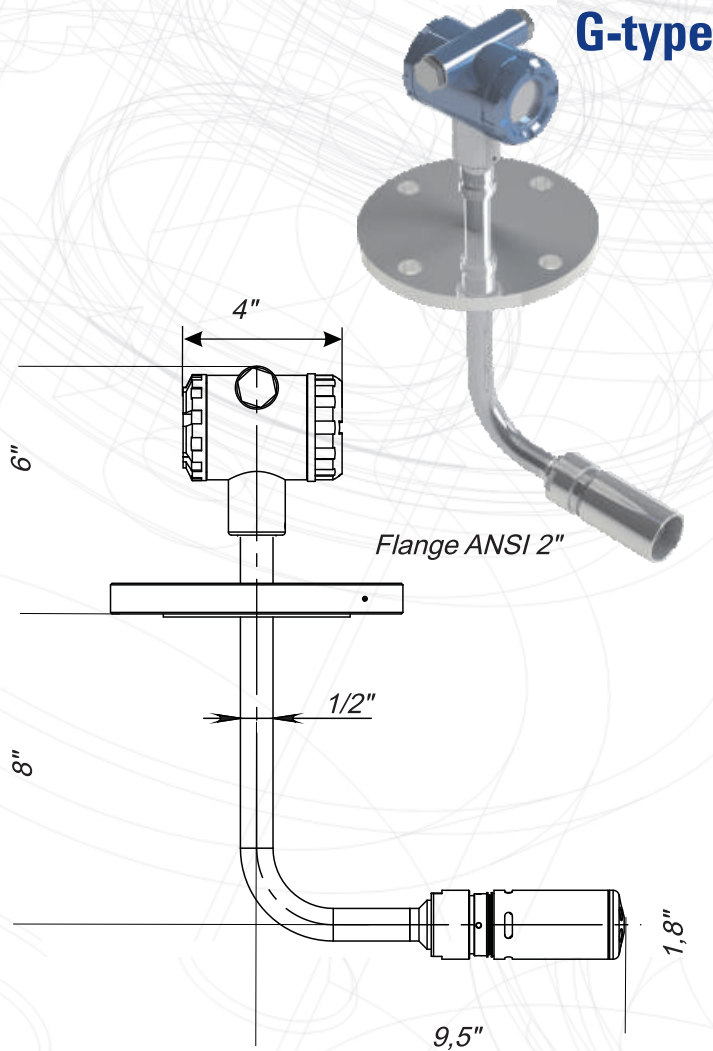
D-type



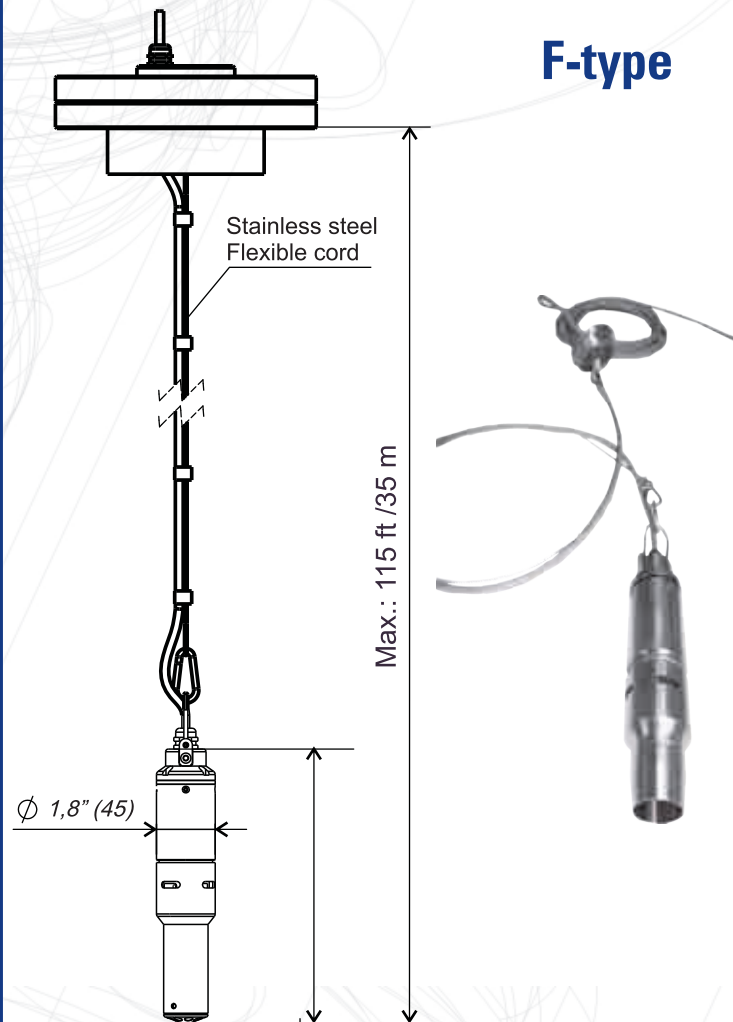
R-type



G-type



F-type



Specifications

Measuring range:

Dynamic Viscosity	Up to 2000 mPa·s (up to 2000 cP)
Temperature	-200... +200°C (-328... +392°F)

Accuracy:

Dynamic Viscosity	±1% of span
Temperature	±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)

Repeatability:

Dynamic Viscosity	±0.5% of span
Temperature	±0.1°C (±0.2°F)

Resolution:

Dynamic Viscosity	0.1 mPa·s (0.1 cP)
Temperature	0.01°C (0.02°F)

Supported measuring units	Dynamic Viscosity: mPa·s, cP Temperature in °C or °F
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Temperature compensation	Automatic
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Viscosity compensation	Automatic
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Maximum Pressure	100 bar (10 MPa)
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Installation types:

D-type	Direct insertion
R-type	Long rigid immersion
F-type	Flexible

Process Connections	Large selection of flanges available
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Ambient temperature	-40... +85°C (-40... +185°F)
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Weather rating	IP67 for sensor and IP 55 for Terminal box
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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

Electrical Connections	Screw terminals; Cable entry: 2 x 3/4" NPT
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Power supply	6-12 VDC 30 mA (60 mA pick)
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Output:

Sensor	Line density and temperature digital signals
Analog	Up to 3x isolated 4-20 mA, direct or reverse-acting, configurable
Digital	Standard: RS485, Modbus; user choice of signals and protocols

Factory calibration	Calibration certificates supplied as standard
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CE mark	Compliant EN 61326 ; EN 5011 ; EN 50082-2
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Implosion protection marking	ATEX II 1/2G Ex ia IIB T4; IECEx Ex ia IIB T4 Ga /Gb; CCE
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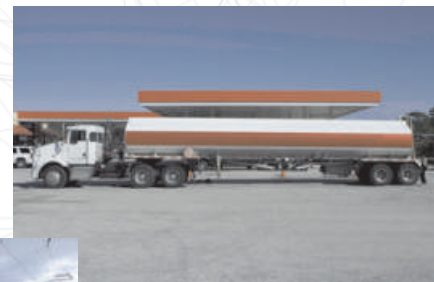
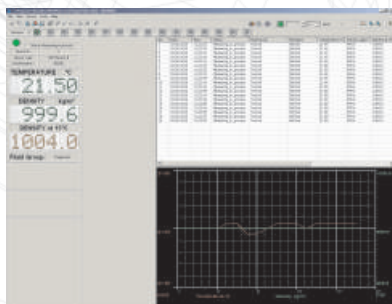
APPLICATIONS

- Viscosity and temperature monitoring in storage tanks
- Petroleum products, fuels, lubricants
- 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 viscosity monitoring at process conditions
- Accurately measures viscosity 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 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-process.com



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