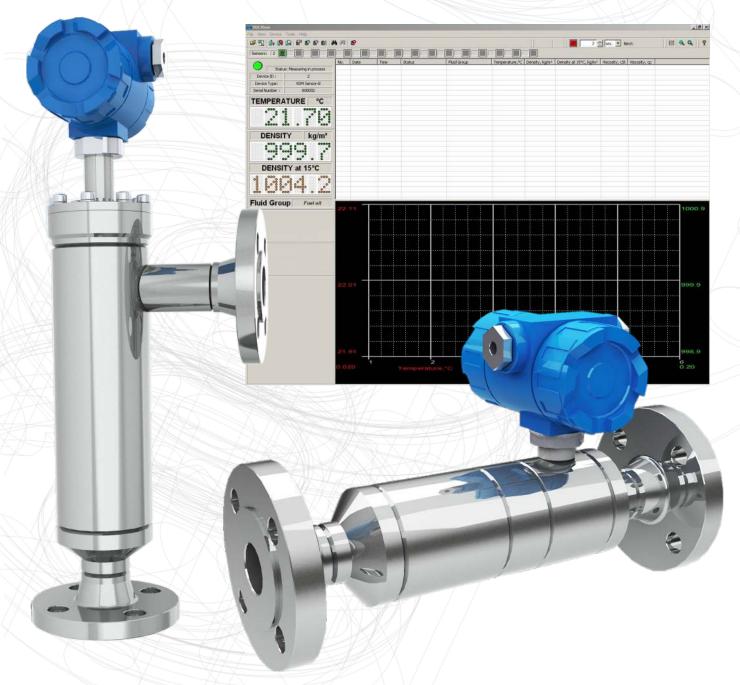


# **50 SERIES**



# **DENSITY METER**

**DC-50** 

IN PROCESS TO EXCELLENCE

## **Specifications**

Measuring range:	
Density	0 3 g/cm³ (0 3000 kg/m³)
Density NG, PG, LNG	0 0.4 g/cm <sup>3</sup> (0 400 kg/m <sup>3</sup> )
Density LPG Density Standard	0.4 0.65 g/cm³ (400 650 kg/m³) 0.65 1.6 g/cm³ (650 1600 kg/m³)
Temperature	-200 +200°C (-328 +392°F)
Accuracy:	
Density	Up to ±0.00025 g/cm³ (up to ±0.25 kg/m³)
Temperature	±0.2°C (±0.4°F)
Repeatability:	
Density	Up to $\pm 0.000125$ g/cm <sup>3</sup> (up to $\pm 0.125$ kg/m <sup>3</sup> )
Temperature	±0.1°C (±0.2°F)
Resolution:	
Density	0.0001 g/cm <sup>3</sup> (0.1 kg/m <sup>3</sup> )
Temperature	0.01°C (0.02°F)
Process connection	NPT 1/2", 3/4", 1"
	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
Supported measuring units	Referred density: at 15°C, 20°C, 60°F; API60; SG60
	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
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 G-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
- Conversion 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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