

# VISCOSITY METER

**DC-51**

**IN PROCESS TO EXCELLENCE**

# Specifications

## Measuring range:

Dynamic Viscosity	Up to 2000 mPa·s (up to 2000 cP)
Temperature	-40... +85°C (-40... +185°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
Temperature compensation	Automatic
Viscosity compensation	Automatic
Maximum Pressure	100 bar (10 MPa)
Process connection	NPT 1/2", 3/4", 1" ANSI 1/2", 1", 2", 3" 4" DN 10, 15, 25, 50, 80, 100
Ambient temperature	-40... +50°C (-40... +122°F)
Weather rating	IP67 for sensor and IP 55 fo Terminal box
<b>Materials:</b>	
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
Power supply	6-12 VDC 30 mA (60 mA pick)
<b>Output:</b>	
Sensor	Line viscosity 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
CE mark	Compliant EN 61326 ; EN 5011 ; EN 50082-2
Implosion protection marking	<b>ATEX</b> II 1/2G Ex ia IIB T4; <b>IECEX</b> Ex ia IIB T4 Ga /Gb; CCE

## 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

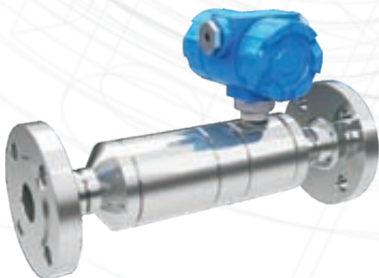
## Applications

- Petroleum industry
- Ethanol production
- Food & Beverages
- Chemical industry
- Cosmetic industries
- Process monitoring and control

## Software

- Receiving of viscosity and temperature values from Terminal Box via cable
- 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-51 S-type



### DC-51 G-type



### DC-51 T-type



For more information please visit [www.lemis-usa.com](http://www.lemis-usa.com)



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