

VDC-30 SERIES

Kinematic Viscosity

Dynamic Viscosity

Density



PROCESS VISCOMETER

FOR LOW FLOW RATE

VDC-30

IN PROCESS TO EXCELLENCE

Specifications

Measuring range: Dynamic Viscosity	0.2 to 2000 mPa·s (0.2 to 2000 cP) 0.5 to 2 g/cm³
Density Range Temperature	-20°C to +100°C (-4°F to +212°F)
Accuracy: Density Dynamic Viscosity Temperature	Up to ± 0.0002 g/cm³ (up to ± 0.2 kg/m³) Up to ± 0.0005 g/cm³ (up to ± 0.5 kg/m³) Up to ± 0.001 g/cm³ (up to ± 0.1 kg/m³) $\pm 1\%$ of span ± 0.1 °C (± 0.2 °F)
Repeatability:	
Density	Up to ± 0.0001 g/cm³ (up to ± 0.125 kg/m³) Up to ± 0.00025 g/cm³ (up to ± 0.25 kg/m³)
	Up to ± 0.0005 g/cm ³ (up to ± 0.5 kg/m ³)
Dynamic Viscosity Temperature	±0.5% of span ±0.1°C (±0.2°F)
Resolution:	
Density	0.0001 g/cm³ (0.1 kg/m³)
Viscosity Temperature	0.1 cP 0.01°C (0.02°F)
Flow Range	10 to 100 L/h
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 D1250 Alcohol tables Temperature in °C or °F
Ambient temperature	-20°C to +50°C (-4°F to +122°F)
Operating pressure	Up to 10 Bar (Up to 145 psi)
Materials: Sensor	Stainless steel SS 316 L; NiSpan C; Hastelloy C22
Weather rating	IP65

24V AC

4-20 mA

Automatic

Automatic

ISO 9001:2000

Standard: RS485, Modbus, Analog 4-20mA

200 x 174 x 91 mm (7,9 x 6,9 x 3,6 in)

Swage nipple PN 06HB02 VA 1/8"-6

Compliant EN 61326; EN 5011; EN 50082-2

Calibration certificates supplied as standard

approx. 3 kg (approx. 6,6 lb)

Black lighted LCD 4x20

Advantages

- Continuous measurements
- Easy cleaning
- High accuracy
- Simple installation
- Suitable for very viscous liquids
- Wide range of applications
- Rigorous factory calibration
- Automatic temperature compensation
- Compact design

Applications

- Marine
- Military applications
- Pharmaceutical and cosmetic industries
- Petroleum industry
- Food & Beverages

RS-485 24V AC Quitet Inigi

Principle of quality

Quality Assurance

Factory calibration

Power supply

Digital output

Analog output

Dimensions, weight

Data Handling

CE mark

Weight

Process connection

Temperature compensation

Viscosity compensation

Housing Dimensions

DC-30 principle of operation is based on the changing of frequency characteristics of the sensitive element in the measured liquid. Device measures continuously Dynamic iscosity and Real Density to calculate Kinematic Viscosity of the liquid. Usually all the industrial measuring systems operate with dynamic viscosity unlike most of laboratories neasure kinematic viscosity via capillary viscometers. So it is critically important to compare laboratory measurements with measurements made by process meters and valuate measuring system`s performance.

For more information please visit www.lemis-process.com



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