

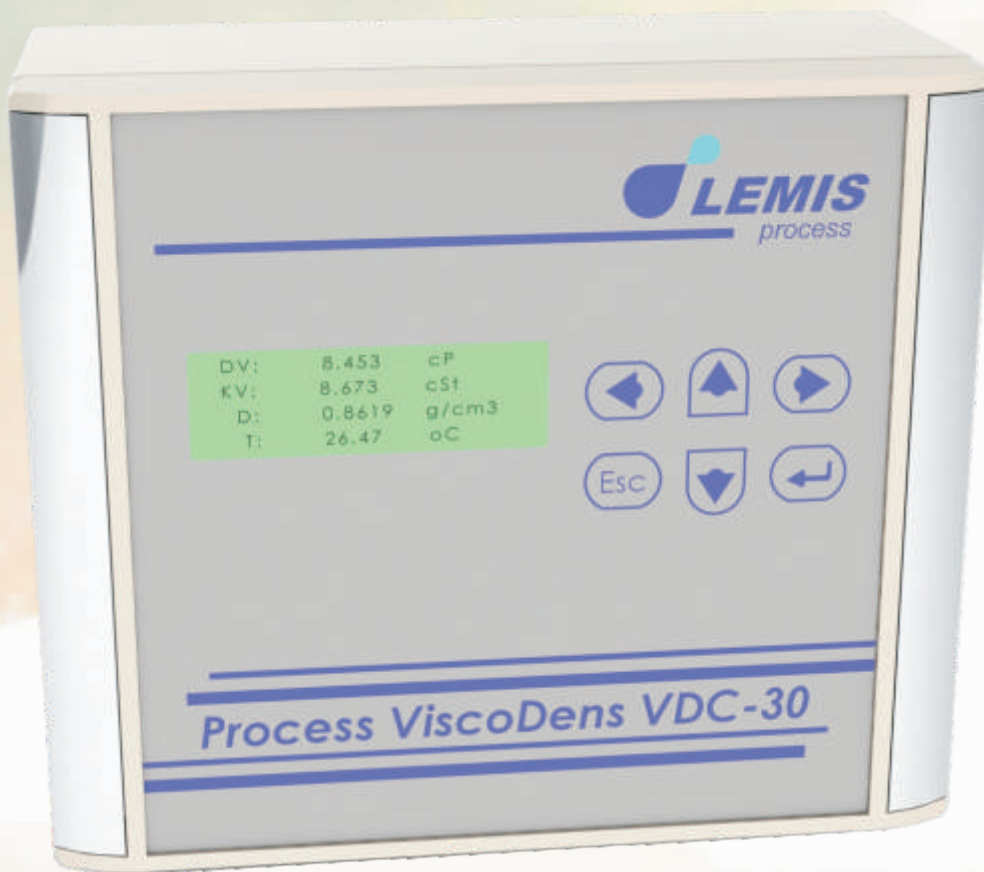


VDC-30 SERIES

**Kinematic
Viscosity**

**Dynamic
Viscosity**

Density



PROCESS VISCOMETER

FOR LOW FLOW RATE

IN PROCESS TO EXCELLENCE

Principle of quality

VDC-30 principle of operation is based on the changing of frequency characteristics of the sensitive element in the measured liquid. Device measures continuously Dynamic Viscosity and Real Density to calculate Kinematic Viscosity of the liquid.

Usually all the industrial measuring systems operate with dynamic viscosity unlike most of laboratories measure kinematic viscosity via capillary viscometers. So it is critically important to compare laboratory measurements with measurements made by process meters and evaluate measuring system's performance.



Specifications

| | |
|--------------------------------|--|
| Dynamic Viscosity Range | 0.2 to 2000 mPa·s (0.2 to 2000 cP) |
| Dynamic Viscosity Accuracy | ±1% (measured value) |
| Density Range | 0.5 to 2 g/cm ³ |
| Density Accuracy | ±0.0002 g/cm ³ ±0.0005 g/cm ³ ±0.001 g/cm ³ |
| Temperature Range | -20°C to +100°C (-4°F to +212°F) |
| Temperature Accuracy | ±0.1°C (±0.2°F) |
| Pressure Range | 0 to 10 Bar |
| Viscosity Effect | Automatically compensated |
| Process Connection | Swage nipple PN 06HB02 VA 1/8"-6 |
| Flow Range | 10 to 100 L/h |
| Data Handling | Back lighted LCD 4 x 20 |
| Ambient Temperature Range | -20°C to +50°C (-4°F to +122°F) |
| Weather Rating | IP65 |
| Sensor Material | Stainless steel 316L; Ni-Span C; Hastelloy C22 |
| Power Supply | 24V AC |
| Analog Output | 4 - 20 mA |
| Digital Output | RS 485; Modbus |
| Quality Assurance | ISO 9001:2000 |
| Factory Calibration | Calibration certificates supplied as standard |
| CE Mark | Compliant EN 61326 ; EN5011 ; EN 50082-2 |
| Housing Dimensions (L x W x H) | 200 x 174 x 91 mm (7,9 x 6,9 x 3,6 in) |
| Weight | approx. 3 kg (approx. 6,6 lb) |

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

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



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