

Product:

ViscoTron VP3000 Series Sensors

Manufactured By:

Marimex

|  | VP-3000LL  | VP-3000L                      | VP-3000M        | VP-3000H                                    | VP-3000X         |
|--|--|-------------------------------|-----------------|---|------------------|
| Viscosity range<br>(mPa·s x g/cm <sup>3</sup> )        | 0.10 to 1,000.00   | 0.10 to 2,500.00              | 1.0 to 25,000.0 | 10 to 250,000                               | 100 to 5,000,000 |
| Sensor length  | 185 mm   | 185 mm                        | 155 mm          | 125 mm                                      | 120 mm           |
| Maximum process temperatures with external transmitter | LTE<br>STE<br>HTE  | < 175°C<br>< 350°C<br>< 450°C |                 | 65 mm riser<br>125 mm riser<br>225 mm riser |                  |
| Maximum process temperatures with internal transmitter | LTI<br>STI<br>HTI  | < 75°C<br>< 130°C<br>< 300°C  |                 | 65 mm riser<br>125 mm riser<br>225 mm riser |                  |
| Resonance frequency                                    | 150 to 600 Hz depending on construction  |                               |                 |   |                  |
| Shear rate   | 942 - 3,750 sec <sup>-1</sup> depending on construction (factory adjustable)   |                               |                 |   |                  |
| Calibration  | 3 decades standard      4 decades optional<br>Computer assisted calibration with NIST traceable standards<br>Calibration is independent of cable length with the ViscoTron VT-G144 transmitter<br>Calibration is dependent on cable length with the ViscoScope VS-4450 transmitter |                               |                 |   |                  |
| Repeatability  | 0.3% or ±1 digit   |                               |                 |   |                  |
| Reproducibility  | 0.5% or ±1 digit   |                               |                 |   |                  |
| Accuracy   | 1% or ±1 digit (factory calibrated with NIST standards)  |                               |                 |   |                  |
| Process temperature                                    | Measured with PT100 located inside the sensor bulb   |                               |                 |   |                  |
| Hazardous area approval (optional)                     | ATEX: II 1/2 G EEx ia IIC T <sub>3</sub> – T <sub>6</sub><br>CSA International Class I, Div I, Group C and D   |                               |                 |   |                  |
| Cable length   | 1000 meters max. between sensor and transmitter  |                               |                 |   |                  |
| Housing  | IP65   |                               |                 |   |                  |
| Wetted parts   | SUS316L (1.4571) standard optionally Hastelloy C, Duplex, Monel<br>Low friction, corrosion resistant coatings up to 300°C<br>Other coatings available based on the application   |                               |                 |   |                  |
| Process connection                                     | 3" 300# and DN80 PN40 standard    Other process connections optional<br>(maximum pressure capability of sensor: 500 bar / 7250 psig)   |                               |                 |   |                  |
| NAE (Non-active extension)                             | Eliminates no flow areas in a pipe connection, a reactor or T-piece. Can also be used to bridge gaps in low level applications.<br>Standard Ø 38 to 48 mm      Length = up to 1,000 mm<br>NAE available in other diameters, lengths and special shapes                             |                               |                 |   |                  |

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Regards from the Team at Rheology Solutions.