

Hydramotion XL7 Process Viscometer XL7-10x

The XL7 viscometer is available as a range of standard models, but can also be adapted to suit any special application - all with the same features and benefits:

Features

- High sensitivity over wide range
- Simple tank or pipeline installation
- High accuracy and repeatability
- No moving parts -- no maintenance
- Digital and analog outputs

The XL7 series represents a wide range of standard viscometers, covering nearly all applications. The standard Signal Processor supplied with the instrument is the VP550, but other Signal Processors are available. The VP550 can be mounted up to 1 km from the transducer and has digital and analog outputs for recording or remote monitoring. XL7 viscometers are frequently used as part of a feedback loop for plant or viscosity control. The Signal Processor can be hooked up to temperature sensors to automatically calculate viscosity corrected to a specific reference temperature.



Every viscometer is factory calibrated in an ISO 9001 laboratory to national traceable standards. Each device delivers high accuracy and long duty with simple installation, no maintenance and unbeatably low cost of ownership.

All standard instruments are available as intrinsically safe, high temperature and/or hygienic models and come with the process connection of your choice. There is no special pipe work or calibration required. Simply fit to the line, connect the power and you are ready to go.

Specifications

Transducer

Viscosity Accuracy:	+/-1% of reading
Viscosity Repeatability:	+/-0.3% of reading
Complete Viscosity Range:	(Please select a range when ordering)
Model 100	0 to 1,000 cP
Model 101	0 to 5,000 cP
Model 102	0 to 10,000 cP
Model 103	0 to 100,000 cP
Model 104	0 to 1 M cP
Model 105	0 to 5 M cP

*Temperature Range (sensor):	-50°C to 150°C
*Maximum Pressure:	40 bar (600psi)
Process Connection:	To suit application

Nelson Systems

ADVANCED VISCOSITY SOLUTIONS

Overall Length: 443 mm
Weight: 4 kg + fitting
Materials: 316 Stainless Steel (other materials on request)
Environmental Rating: IP68
Safety Certification: Safe Area

Signal Processor

Processor Unit: VP550
Display: Multi-parameter display
Environmental Rating: IP65
Power Supply: 24V DC @ 100 mA
(including transducer)
Analog Output: 3 x 4-20 mA, fully configurable, representing viscosity, corrected viscosity or temperature
Digital Output: RS 485 output Modbus serial link
Alarm Contacts: 2 x volt-free completely assignable
Analog Input: External temperature 4-wire RTD or 4-20mA – user assignable
2 x 4-20mA input (density, pressure)

*Additional Options Available:

- Extended Temperature, up to 450°C
- Extended Pressure, up to 20,000 psi
- Integral Tip-Mounted Temperature Sensor
- High Polish Wetted Parts
- PTFE-coated Wetted Parts
- Hastelloy Wetted Parts
- Intrinsically Safe (hazardous area)
- USB Output