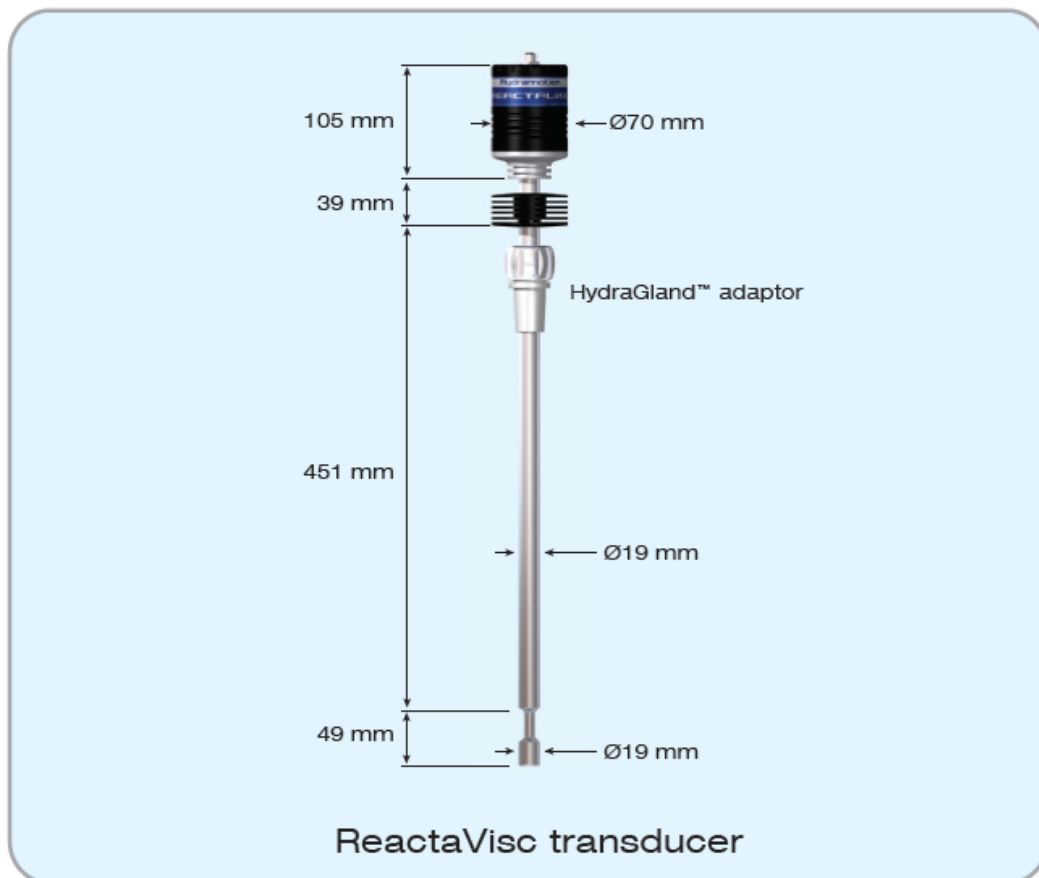


Hydramotion ReactaVisc Reaction Vessel Viscometer RV3

The ReactaVisc is a research-grade device for the continuous real-time measurement of viscosity in reaction vessels. The narrow-bodied enclosure takes up minimal space at the top of the vessel, leaving plenty of room for other equipment such as stirrers or condensers.

The standard viscometer can often be fitted to a laboratory-scale vessel without requiring special support. The movable gland adaptor enables the immersion depth to be varied at will.



The accompanying signal processor unit provides analog and digital outputs for data logging or remote monitoring. With its integral temperature sensor, temperature-corrected viscosity is also calculated.

Typical applications include viscosity monitoring during polymerization or esterification reactions, for example in a research project or as part of a small-scale production facility.

Features

- Fits all types of reaction vessels
- Continuous high-temperature measurement
- High sensitivity over wide range
- Variable immersion depth
- Compact and lightweight
- Polished crevice-free sensor
- No moving parts - no maintenance
- Digital and analog outputs
- Shaft Mounted PRT



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Specifications

Transducer

Viscosity Range:	0 - 500,000 cP over 6 models
Measurement time:	1 second
Viscosity Accuracy:	1% of reading or ± 1 digit
Viscosity Repeatability:	0.5% of reading or ± 1 digit
Standard Temperature Range:	-40°C to 200°C
Extended Temperature Range:	To order for greater than 200 °C *
Vessel Connection:	HydraGland™ adaptor for all vessel fittings *
Adaptor materials:	PTFE and SS316
Sensor projection:	450 mm
Sensor diameter:	19 mm
Cable length:	as required
Cable connector type	Binder 4-way
Power supply:	powered by signal processor
Construction:	all-welded, crevice-free
Sensor materials:	SS316/316L * (optional: alloy C22, alloy C276)
Finish:	Wetted parts highly polished – N5 0.4 μ m Ra Options: fluoropolymer, electropolish, electroplated *
Environmental Rating:	IP67
Safety Certification:	Safe Area or Intrinsically Safe (hazardous area)

Signal Processor

Processor Unit:	VP750
Viscometer Link:	Digital data link and sensor power for Hydramotion viscometers
Display:	Large character backlit matrix LCD display
Viscosity Display Units:	User selectable cP, P, mPa.s, Pa.s
Temp/Pressure Display Units:	User selectable metric / imperial
LED Indicators:	Sensor Data Link Status, Alarm Status
Analog Output:	3 \times 4-20 mA configurable, representing viscosity, corrected viscosity or temperature
Digital Output:	RS485 ModBus Data Link to host system or PC running ViscoLink; USB 2 Data Interface
Analog Inputs:	External temperature 4-wire RTD or 4-20mA – user assignable; Density 4-20mA; Pressure 4-20mA
Connections:	Field rewirable Binder connectors
Power Consumption:	24V DC @ 150mA
Dimensions:	H 174mm x W 224mm x D 70mm
Enclosure Material:	Machined from high-grade Al 6082 Alloy
Weight:	1.7Kg

Software

Data capture:	ViscoLink data viewing and logging PC software
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* Custom variations to specification available to order