

REALology Automatic Rotational Viscometer

Vertechs REALology Automatic Rotational Viscometer (REALologyFAST) is a proprietary, field-proven online viscometer. It has been successfully deployed in drilling fluid, fracturing fluid, completion fluid, and other fluid monitoring applications.

Designed in accordance with API standards, this automated viscometer delivers high measurement accuracy, excellent repeatability, and a compact, portable design. It is suitable for viscosity measurement of single-component, multicomponent, and multiphase fluids.



FEATURES

- **API-Standard Compliance:** Compliant with API RP 13B-1 and API RP 13B-2, with accuracy verified by independent third-party certification

- **Wide Fluid Compatibility:** Suitable for oil-based, water-based, and synthetic-based drilling fluids, as well as fracturing, completion, lubricant, and multicomponent fluids
- **Integrated Automation:** Supports one-click measurement and cleaning, with remote access for data monitoring and device control
- **Intelligent Connectivity:** Enables real-time integration with existing systems or cloud platforms for remote monitoring and control
- **Compact and Flexible Design:** Less than 45cm in height and suitable for standalone use or integration with other measurement systems
- **Integrated Heating:** Precise temperature control up to 75°C for stable, constant-temperature testing
- **Minimal Sample Requirement:** Requires less than 300mL of sample volume

SPECIFICATIONS

Measurement Range	0-300 mPa·s (Customizable)
Accuracy	1-25 mPa·s: ± 1 mPa·s >25 mPa·s: $\pm 2\%$ FS
Repeatability	$\geq 98\%$
Temperature	$\leq 75^{\circ}\text{C}$ (High-temp options available)
Power Supply	220V AC
Installation / Material	Flange or Complete Unit / 304 Stainless Steel (Customizable)
Control Interface	Touchscreen / Mobile Device
Compatible Fluids	Single-component, multicomponent, and multiphase fluids



Fig 1. REALologyFAST integrated into a fracturing fluid monitoring system



Fig 2. REALologyFAST integrated into a drilling fluid monitoring system

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