

RheoVADR® Variable Automated Digital Rheometer

Description

The Fann RheoVADR® Variable Automated Digital Rheometer measures rheological properties of Newtonian and non-Newtonian fluids and records this data directly to a USB flash drive. This rheometer is equipped with R1 Rotor Sleeve, B1 Bob, F1 Torsion Spring, and a stainless steel sample cup for testing according to American Petroleum Institute Recommended Practice.

Application

The RheoVADR® Rheometer is suitable for field or laboratory use. A case is available for transporting this instrument.



Advantages

- Pre-programmed API profiles for quick and efficient testing
- Data recording for observing trends and analyzing, sharing, printing, or downloading data
- USB port for connecting flash drive to save data (CSV) directly, computer not required
- Resistance Temperature Detector (RTD) for 0.5°F accuracy and repeatability
- Secure fit, left-hand turn for rotor/right-hand turn for bob to help prevent detachment when measuring high viscosity fluids
- LED-lighted sample area for low-light locations
- OLED display for easier reading
- Push button design for easy operation and better control

The RheoVADR® has been evaluated for compliance, and fulfils the requirements of EN 61010-1:2010, CAN/CSA C22.2 No. 61010-1-2012 and UL61010-2-030:2012.

A copy of this Declaration of Conformity is available upon request.



DNA System compatible

DNA is a proprietary hardware and software system that adds capabilities to existing Fann equipment. Contact Fann Instrument Company for more information.

Specifications

Torsion Spring	F1, F2, F0.2	Speed Accuracy	0.001 rpm
Rotors	R1, R2, R1 Closed End, R2 Closed End	Shear Rate Range	0.01 to 1700 sec ⁻¹
Bobs	B1, B2, B3, B4, B5	Dial Resolution	0.1
Operating Temp	40°F to 125°F (4.4°C to 52°C)	Dial Accuracy	0.5
Temp Measurements	RTD	Viscosity Range (R1-B1-F1)	0.1 to 9999 cP
Temp Accuracy	0.5°F	Ports	Power, RS485 serial, USB
Sample Temp	200°F (93°C)	Data Port	USB flash drive
Sample Volume	350mL	Data Recording Speeds	100, 200, 500 ms; 1, 5, 10 sec
Automatic Tests	4 Pre-programmable API	Weight	15lb (6.8kg)
Speed Range	12 preset; Variable 0.01 to 999.9 rpm	Dimensions	16 in. x 5 in. x 9.5 in., 40.6 cm x 12.7 cm x 24 cm
Power	100 to 250 VAC, 50/60 Hz, 75W		

Ordering Information

Part No.	RheoVADR® Model
102406902	RheoVADR Rheometer with F0.2 Torsion* Spring
102267855	RheoVADR Rheometer with F1 Torsion* Spring
102453150	RheoVADR Rheometer with F2 Torsion* Spring

Each unit includes the following items:

Part No.	Item
207560	Stainless steel sample cup 350mL
207033	Bob, B1
102303922	Rotor, R1
*	Torsion Spring Assembly*
102267847	RTD, 316SS, Standard Sheath
D00845847	Instruction Manual

*Torsion Springs (specific to each model)

Part No.	Item
102406065	Torsion spring assembly, F0.2
102267854	Torsion spring assembly, F1
102453149	Torsion spring assembly, F2

Optional Equipment

Part No.	Item
207026	Fluid Calibration Check Kit
102377768	RTD 316SS, 8in Sheath
207952	Cold Water Rheology Kit 115/120V
207953	Cold Water Rheology Kit 220/230V
101558383	Thermo-Cup, 115VAC, 50/60Hz 2A
101558384	Thermo-Cup, 230VAC, 50/60Hz, 1A
102372795	Spares, 1yr
102372796	Spares, 2yr
102375360	Case
102469227	Dead Weight Calibration Kit

Fann Instrument Company offers a complete line of equipment, materials, and supplies for analyzing various drilling fluids and oil well cements in accordance with API Specifications and API Recommended Practices.