



Roto-thinne Viscometer

The DRV-1T viscometer is an easy-to-use and reliable instrument for viscosity measurement. Equipped with an ARM chip processor, it delivers faster data processing speeds and features a high-subdivision stepper motor drive system along with a digital touch screen display. The viscometer ensures smooth and precise rotation, user-friendly operation, and provides direct on-screen readings of viscosity, temperature, timer settings, percentage torque, and viscosity characteristics of the same sample under three different shear rates ($20S^{-1}$, $44S^{-1}$, $200S^{-1}$), with a value hold function.

Both the main control board and drive board utilize surface-mount technology (SMT), and the circuit design incorporates advanced microprocessor architecture for compact and efficient layout. The instrument offers full-range calibration and linearity adjustment for all ranges via a PC interface, meeting performance and functional standards comparable to advanced international models.

Designed specifically for measuring paints and coatings, the DRV-1T rotates the spindle at a constant speed of 562 RPM. The resistance encountered by the dish or sphere spindle is automatically converted into viscosity values in cP or mPa.s. The instrument complies with ISO 2884-2 and BS 3900 A7 standards.

Feature

- 1、 5 inch screen with rich information: easy to operate
- 2、 Anti-static shell, RTD temperature probe
- 3、 ARM chip processor for higher data processing speed
- 4、 Manual up and down lift
- 5、 Meet ISO 2884-2 and BS 3900 A7 standards
- 6、 Step motor control for more accurate rotate speed
- 7、 Hold reading value displayed on the screen
- 8、 Continuous viscosity value displayed
- 9、 Equip with a printer interface
- 10、 Linear calibration by computers
- 11、 Power supply: 100V-240V, good anti-interference



Main Technical Parameters

Type	DRV-1T
Range (mPa.s)	Spindle D1(SR: 200 S-1) : 22-2200mPa.s Spindle D2(SR:44 S-1) : 75-7500mPa.s Spindle D3(SR: 20S-1) : 350-35000mPa.s
Speed (RPM)	562 RPM \pm 0.1
Measuring can	Measuring can (inner diameter:74mm, height:74mm)
Spindles	Spindle D1, D2, D3
Accuracy	\pm 1.0%(of full range)
Repeatability	\pm 0.5%

- ※ 1*cp, the low limit reachable with rotor #0 / ** the lower limit reachable with rotor R1;
- ※ Unit conversion: 1Pa.s=1000mPa.S, 1P=100mPa.S, 1cp=1mPa.S

Environmental conditions:

Ambient temperature: 5°C ~ 35°C (recommended temperature: 20°C)

Relative humidity: ≤80%

Power supply: AC100~240V (50/60Hz)



**MODERN
INSTRUMENTS**



No 18, Xuwang Road, QingPu District Shanghai, China



+86 2159884839



info@moderner.com