

Programmable Touch-screen Viscometer with Temp. Control

Programmable Touch-screen Viscometers with Temperature Control combine viscosity measurement and temperature control in one machine. It breaks the current way to measure viscosity which needs to use a thermostatic bath, viscometer, and a small amount sample adapter separately.

Measuring sample's viscosity change under different conditions is very useful for estimating its rheological behavior, while controlling sample temperature precisely is helpful for getting an accurate and comparable test result. The most obvious advantage of this machine is controlling sample temperature precisely during the whole test. Its temperature controlling system consists of a semiconductor and a built-in automatic optimization program of temperature control. The temperature controlling precision can reach $\pm 0.1^{\circ}\text{C}$. Operator can control sample temperature not only by machine, but also by optional software, has an excellent flexible operation.

- ◆ Consists of 7 inch wide touch screen viscometer, small amount sample adapter (SSR), cylindrical sample sleeve and SC4 rotor, temperature controller.

- ◆ BGD 157 can display shear rate and shear stress, can fulfill a precise measurement under a certain shear rate.

- ◆ Only need 2ml~16ml sample, the cylindrical structure of SC4 rotor can offer a precise viscosity measurement

- ◆ Electrical lifting and precise location, SSR is easy assembly and disassembly, convenient to clean.

- ◆ SSR fits temperature controller closely, can ensure a precise constant temperature to sample.

- ◆ Small amount sample, rotor stir action can minimize the non-uniformity of sample temperature, shorten greatly sample hydrothermal time.

The other features of Viscometer is same as Programmable Touch-screen Viscometer.



Main Technical Parameters:

Ordering Information Parameters → ↓	BGD 156/TS (DV-I)	BGD 157/TS (DV-II)
Measurement Range (mPa.s)	BGD 156/TS1: 5-330K BGD 156/TS2: 50-3.3M BGD 156/TS3: 100-6.6M BGD 156/TS4: 400-26.4M	BGD 157/TS1: 5-1M BGD 157/TS2: 25-10M BGD 157/TS3: 50-20M BGD 157/TS4: 200-80M
R.P.M (per min)	0.3-100	0.1-200
Functions	Measure viscosity	Measure viscosity, shear rate, shear stress
Software(Optional)	BGD 1607 Data collection and graphing software	BGD 1608 Data collection and graphing software
Temp.Control Method	Set single point temperature	Rise temperature by programme
Rotor Amount	Standard: SC4-21#, 27#, 28#, 29# (SC4-14, 15, 16, 18, 25, 31, 34 is optional)	
Sample	2-16ml	
Measurement Accuracy	$\pm 1.0\%$ (of the full range)	
Repeatability	$\pm 0.5\%$ (of the full range)	
Temperature Range	$-1^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (precision $\pm 0.1^{\circ}\text{C}$)	
Power	Input: AC100-240V, 50Hz/60Hz; Output: DC17V 1.2A	
Package Weight	20 Kg	
Package Size	490mm × 360mm × 600mm	