

## Intelligent Touch-screen Rotary Viscometer (Basic)

**Intelligent Touch-screen Rotary Viscometers** are upgraded from old digital viscometers. They are equipped a 5 inch touch screen with a powerful human-machine interface, easy to use and can show many testing parameters. They use a MCS-51 series computer to constantly control the rotation speed and the whole testing process. Finish viscosity measurement automatically under controlling of computer and output test results to screen. They can be used to measure viscous resistance and absolute viscosity of liquid, and widely applied in the field of petri chemistry, medicine, food, light industry, textile industry, scientific research, etc.

### Features

- ◆ Small size, good stability, high precision and good anti-interference.
- ◆ With Biuged patents, enable multiple sampling in one rotation. Other competitor only sample one time in one rotation.
- ◆ Rotate by high sub-division stepper motor driver, with accurate speed, low noise, stable movements. And the change of AC power frequency don't influence viscosity measurements.
- ◆ For thixotropic Non-Newton fluid, timing function of instrument can ensure to get a good consistent testing results.
- ◆ Driven by stepper motor directly, convenient to change speed, display rotating speed clearly, good reliability and no shaking.
- ◆ 5 inch high definition touch screen display viscosity, speed, torque percentage, max. measurement range under current rotor and speed.
- ◆ Display continuous change of viscosity, Alarm for over measuring range.
- ◆ Linear Calibration to full range by computer, measurement precision is  $\pm 1.0\%$  of full range.
- ◆ Switching adapter, wide range power supply input (100V-240V) for good anti-interference
- ◆ Anti-static shell and PC material lifting pole
- ◆ Durable new design with small shaft
- ◆ ARM chip processor, processing data more quickly
- ◆ Convert freely between various viscosity units, dynamic viscosity convert kinematic viscosity automatically
- ◆ Accompanied with detailed operation instruction and correction function for viscosity coefficient.
- ◆ Calibrated by user
- ◆ Built-in RTD temperature sensor to monitor sample temperature in real time.
- ◆ Come with RS 232 interface, can print measuring data by mini-printer with less labor.

### Main Technical Parameters:

★ Rotors: Four rotors---No.1, No.2, No.3, No.4
★ Measuring Range: BGD 152/1S---10~100, 000 ( $10^5$ ) mPa.s BGD 152/2S---10~2, 000, 000 ( $10^6$ ) mPa.s
★ Rotate speed: BGD 152/1S---6r/min,12r/min,30r/min,60r/min BGD 152/2S---0.3 r/min, 0.6 r/min,1.5 r/min,3r/min, 6r/min, 12r/min,30r/min,60r/min
★ Measurement Precision: $\pm 1.0\%$ of full range (Newtonian fluids)
★ Measurement Repeatability: $\pm 0.5\%$ of full range (Newtonian fluids)
★ Electrical power: 220V/50Hz
★ Weight: 10Kg
★ Dimensions: 308mm x 300mm x 450mm. (L x W x H)
★ Optional Accessories: Mini printer, Thermoses, Standard oils etc
★ <b>Ordering Information:</b>
BGD 152/1S---Intelligent Touch-screen Rotary Viscometers (10-100,000mPa.s)
BGD 152/2S---Intelligent Touch-screen Rotary Viscometers (10-2,000,000mPa.s)

