

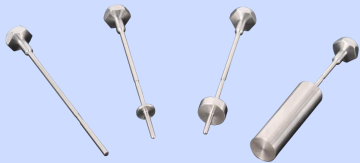




# AI Viscometer

BEVS 1138



<b>Introduction</b>	<p>BEVS 1138 AI Viscometer is designed for measuring fluids with a wide range of viscosities. With the AI technology, it enables full-process measurement through voice control and conveys information to users via voice, allowing them to access the required data more quickly and effortlessly. Its flexible design adapts to various measurement needs, making it widely applicable in industries such as petrochemicals, food and beverages, personal care, and pharmaceuticals.</p>
<b>Working Principle</b>	<p>The principle is based on the flow behavior of Newtonian fluids, where the shear stress is directly proportional to the shear rate. When a rotational viscometer rotates in a liquid, the liquid exerts resistance on the viscometer, and the magnitude of this resistance is proportional to the fluid's viscosity. By measuring the resistance experienced by the rotational viscometer, the viscosity of the liquid can be calculated.</p>
<b>Features</b>	<ol style="list-style-type: none"> <li>1. 4.0” high-definition touchscreen with ultra-fast touch response</li> <li>2. Available in Chinese, English, German, Japanese, Spanish, and Portuguese</li> <li>3. AI voice control for smarter testing</li> <li>4. AI voice broadcasting for easier measurements</li> <li>5. One-touch intelligent measurement</li> <li>6. Designed with flexibility to meet various measurement needs</li> </ol>
<b>Main Function</b>	<ol style="list-style-type: none"> <li>1. AI Voice Control + Voice Broadcasting</li> <li>2. Viscosity Units: cP / mPa·S / P / Pa·S</li> <li>3. Automatic Zero Calibration, Instrument Level Detection, and Spindle Identification</li> <li>4. Automatic Selection of Optimal Speed for Testing</li> <li>5. Display contents include Viscosity, Temperature, Speed, Shear Rate/Shear Stress, % Torque, and Spindle Model</li> <li>6. Customizable Users and User Groups</li> <li>7. Customizable Measurement Plans (up to 10)</li> <li>8. Multiple Speed Settings for the Same Sample as Needed</li> <li>9. Automatic Over-Torque Alarm</li> <li>10. Timed Measurement Function</li> </ol>
<b>Technical Parameters</b>	<ol style="list-style-type: none"> <li>1. Measurement Range: 1~6,000,000cP</li> <li>2. Sample: 500ml</li> <li>3. Rotation Speed: 0.1~200rpm</li> <li>4. Accuracy: ±1%, full scale range</li> <li>5. Repeatability: ±0.2%, full scale range</li> <li>6. Storage: Up to 1000 measured data points</li> <li>7. Data output: USB</li> </ol>
<b>Instrument Parameters</b>	<ol style="list-style-type: none"> <li>1. Dimensions: L412 x W310 x H550mm (at the highest position)</li> <li>2. Electricity: AC 220/110V, 50/60Hz</li> <li>3. Power: 100W</li> <li>4. Weight: 6kg (Main unit)</li> </ol>

<b>Packing list</b>		AI Viscometer x 1 SL spindle x 4, Rack x 1, Guard leg x 1
		
Spindle-4 pcs High-grade stainless steel	Rack-1 pc High-grade stainless steel	Guard leg-1 pc High-grade stainless steel

## ■ Standards

GB/T	GB/T 40280, GB/T 2794, GB/T 21059, GB/T 14797.2, GB/T 15357
ASTM	ASTM D1337, ASTM D115, ASTM D1338, ASTM D789, ASTM D1417, ASTM D1076, ASTM D1439, ASTM D1084, ASTM D1824, ASTM D1986, ASTM D2196
ISO	ISO 1652, ISO 2535, ISO 2555, ISO 2884, ISO 8003, ISO 8003, ISO 10364-12

## ■ Ordering Info

BEVS 1138	AI Viscometer
BEVS 1138/P/010	SL spindle set (4 spindles in one set)