

Programmable Touch-Screen Viscometer with Temperature Control



The Programmable Touch-Screen Viscometer with Temperature Control combines viscosity measurement and temperature control in one machine. This removes the need for a separate thermostatic bath, viscometer, and small sample adapter.

Measuring a samples viscosity change under different conditions is very useful for estimating its rheological behaviour, while controlling the sample temperature precisely. Gives accurate and comparable test results. Precise temperature control within $\pm 0.1^{\circ}\text{C}$ tolerance for the duration of the whole test. The user can control sample temperature at the touchscreen interface, or via software, for flexibility.

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Key Features

Supplied as standard with a full colour 7-Inch touch-screen control system; small sample adapter (SSA); cylindrical sample sleeve and SC4 rotor

The HMI displays the shear rate and shear stress data with precise measurement under a certain shear rate

This viscometer will only require a 2ml-16ml sample to display the readings- the cylindrical structure of the SC4 rotor gives precise viscosity measurement

The small sample adaptor is specifically placed to the temperature controller, ensuring precise constant temperature measurement

Using a small sample allows the rotor stirring action to create a uniform temperature profile within the sample which shortens the sample hydrothermal time

Other features of this viscometer are the same as our Programmable Touch-screen Viscometer (models T01-700307 to T01-700314)

| Product Code | Measurement Range | Rotational Speed | Temp Control | Accuracy |
|--------------|--------------------|------------------|--------------|----------|
| T01-700315 | 10 – 330 K mPa.s | 0.3 -100 rpm | Single Point | ± 1.0 % |
| T01-700316 | 50 – 3.3M mPa.s | 0.3 -100 rpm | Single Point | ± 1.0 % |
| T01-700317 | 100 – 6.6 M mPa.s | 0.3 -100 rpm | Single Point | ± 1.0 % |
| T01-700318 | 400 – 26.4 M mPa.s | 0.3 -100 rpm | Single Point | ± 1.0 % |
| T01-700319 | 10 – 1 M mPa.s | 0.1 -200 rpm | Programmable | ± 1.0 % |
| T01-700320 | 25 -10 M mPa.s | 0.1 -200 rpm | Programmable | ± 1.0 % |
| T01-700321 | 50 – 20 M mPa.s | 0.1 -200 rpm | Programmable | ± 1.0 % |
| T01-700322 | 800 – 80 M mPa.s | 0.1 -200 rpm | Programmable | ± 1.0 % |