

PC-1TL: Table Top Viscometer

SIMPLE START-UP

1. Open top compartment and remove VS-3 measuring unit. Open lower rear compartment (cylinder storage) to remove the measuring spiral and cylinder.
2. Place VS-3 unit on the support shaft, and lock in place.
3. Slide the inner spiral up, and turn in a clockwise direction to secure it.
4. Slide the outer cylinder over the inner spiral, and turn counter-clockwise to secure it.



5. Connect Cables and power unit on.
6. Select the sensor type using the SELECT knob:

TYPE A : 10 – 1000 ($\times 10^3$ mPa·s) High viscosity materials (solder paste)

TYPE B : 20 – 1999 ($\times 10$ mPa·s) Medium viscosity range (paint)

TYPE C : 20 – 1999 ($\times 1$ mPa·s) Low viscosity (lubricants, oils)

7. Place jar under the measuring unit, and lower cylinder into paste, immersing the tip only about 3/4 of an inch (20 mm).
8. Using the Fixed (FIX) mode, the PC1-TL will measure the viscosity at the ISO standard of 10 RPM (40 RPM for TYPE B & C).
9. Press and hold the SPEED button to view the RPM. Press and hold the TEMP button to view the temperature. The ideal temperature for measurement is $\sim 25^\circ\text{C}$.



10. For measuring using a different RPM/Shear rate:

- a. Switch the FIX - VAR mode switch to VAR.
- b. Use the SPEED DIAL to change the speed.
- c. Press and hold the SPEED button while making adjustments to see the updated speed, and to fine-tune it.



11. Measurement will begin. Obtaining a stable, accurate reading of viscosity will take a few minutes.