



DV2Plus™ Viscometer: Common Questions

GENERAL OPERATION-----

Q: What is the DV2Plus Viscometer used for?

DV2Plus is designed to measure the viscosity of fluids at specific shear rates. It helps determine how resistant a fluid is to flow, making it essential for quality control and research in industries like pharmaceuticals, food, cosmetics, and chemicals.

Q: What are the key features of the DV2Plus

This viscometer features a full-color touchscreen, internal data storage, USB and Bluetooth connectivity, integrated temperature sensing, and compatibility with software. It supports both standalone and PC-controlled operation, offering flexibility for various testing environments.

SETUP & INSTALLATION-----

Q: How do I set up the DV2Plus Viscometer?

Start by assembling the Model G Laboratory Stand and mounting the viscometer onto it. Remove the shipping cap and save it for future transport. If you're using a temperature probe, connect it to the rear panel. Plug the power cord into a grounded outlet and connect it to the viscometer. Power on the device using the switch on the back. If prompted, log in using the default administrator password. Finally, level the instrument using the two leveling feet until the digital level indicator on the screen turns green and is centered.

Q: Where can I find the user manual?

You can download the manual from the Brookfield Resource Library at <https://www.brookfieldengineering.com/resourcelibrary> this ensures that you always have access to the latest version.

TESTING & MEASUREMENT-----

Q: How do I perform an AutoZero?

Before running any tests, ensure that no spindle or coupling is attached. Then press the "Run" button on the AutoZero screen. Avoid touching or disturbing the viscometer during this process to ensure accurate calibration.

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Q: How do I configure and run a test?

Begin by selecting the appropriate spindle and speed in the “Configure Test” screen. Set the data collection mode to “Single Point” and the end condition to “None”. Immerse the spindle into the sample at an angle to avoid trapping air bubbles, then attach it to the coupling nut (note that it uses a left-hand thread). Adjust the spindle depth so that the immersion mark aligns with the fluid surface. Once everything is set, press “Run” to begin the test. You can monitor live data on the screen. When the test is complete, press “Stop Test” to end it, then press “Save” to store the results.

Q: What torque range should I aim for during testing?

For accurate results, the torque reading should fall between 10% and 100%. Readings below 10% or above 100% may be unreliable and should be avoided.

DEVICE SETTINGS & ADMINISTRATION-----

Q: How do I change measurement units?

Navigate to the Settings menu and adjust units for viscosity, torque, temperature, and other parameters. You can also configure display preferences like screen brightness, language, and date/time format.

Q: Can I create custom spindles or speeds?

Yes, the Administration menu allows you to define custom spindle geometries and speeds. This is useful if you’re working with non-standard setups or need to replicate specific testing conditions.

Q: How do I manage users and access permissions?

Administrators can create user accounts, assign roles, and set access levels. You can also enable login requirements and lockout features to ensure secure and traceable operation.

DATA MANAGEMENT-----

Q: How do I save and retrieve test methods or results?

Use the “Load Test Method” or “Load Results” options from the home screen. Files can be saved to the internal memory or exported to a USB flash drive. You can also organize files into folders and manage them through the File Management menu.

Q: Can I back up my data?

Yes, DV2Plus supports both manual and automatic backups. You can back up test methods, results, and user settings to a USB drive and restore them later if needed.



MAINTENANCE & TROUBLESHOOTING-----

Q: How should I clean the DV2Plus?

Always remove the spindle before cleaning. Use a non-abrasive cloth and a solvent appropriate for your sample material to clean the spindle. Avoid using solvents on the touchscreen or housing. Keep the instrument in a clean, dry environment when not in use.

Q: What should I do if the spindle doesn't rotate or the display is unstable?

First, check that the viscometer is properly powered and that the spindle is securely attached. Make sure the instrument is level. If the issue persists, perform an Oscillation Check or refer to the troubleshooting section in the manual. You may also need to contact technical support.

CONNECTIVITY & SOFTWARE-----

Q: How do I connect DV2Plus to a computer?

With DV Create, you can connect via USB or Bluetooth. For Bluetooth, ensure the feature is enabled on both the viscometer and your PC.

Q: What is DV Create™ and what does it do?

DV Create is a companion software that allows you to monitor live data, create and load test methods, save and print results, and convert files from older Brookfield models. It enhances data management and reporting capabilities.

What is DV360™ and how does it work with DV2Plus?

DV360 is AMETEK Brookfield's advanced PC-based software platform designed to provide full control over the DV2Plus viscometer. It allows users to operate the instrument remotely, and test sequences, and manage data collection and analysis in a highly customizable environment.

FINAL STEPS AFTER TESTING-----

Q: What should I do after completing a test?

Carefully remove the spindle and clean it according to the instructions in the manual. Make sure no residue is left behind. Store the viscometer and its accessories in a clean, dry place. If needed, save your test results and prepare the instrument for the next use.