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KU-3 Quick Start Guide

Instrument Operation Instructions and Product Registration

As a part of AMETEK Brookfield's sustainability initiative, we have now moved to a digital download format for instrument operation instructions (manuals). The following steps will guide users to download the manual for free:

- Access the 'Manuals' section of the AMETEK Brookfield online store navigation bar using the following link or QR code: https://store.brookfieldengineering.com/manuals/
  - Customers outside of the US may need to visit the regional AMETEK Brookfield online store.
- Sign into the online store to access your account
  - You may need to create a free account if you do not have one already
- Navigate to your instrument.
- Download your manual by using the link provided.
- To ensure faster support, please visit the following link to register your instrument: www.brookfieldengineering.com/contactus/register-product

Scan for Manual

Instrument Setup

- The KU-3 is supplied with the viscometer head mounted on the stand. Remove the entire viscometer from the packing container and place it on a sturdy, level surface.
  - Make sure the instrument is in an adequate working environment (dust-free, moderate temperature, low humidity, etc.).
  - Make sure the instrument is on a level surface.
- Move the operating handle to the top (uppermost) position.
- Plug the metal jacket of the power supply into the circular receptacle on the back of the viscometer. Screw the threaded collar on the metal jacket securely to the threads on the receptacle. Connect the powercord to the socket on the power supply and plug it into the appropriate power source.
- Insert the paddle spindle (KU-1030) into the viscometer spindle shaft. Align the cross bars of the spindle to the slots in the coupling. Insert the spindle shaft completely until the magnetic connection is achieved.
- For Quart Cans: Place the quart can directly into the recess of the viscometer
- For Pint Cans: Place the can adapter (KU-1004) into the recess of the viscometer base. The deep side of the adapter should be facing up. Place the pint can directly into the adapter.
  - Caution: Slide the pint can into the can adapter to avoid contacting the paddle spindle. Contact between the can and paddle spindle may result in damage to the KU-3 Viscometer.
- For ½ Pint Cans: Place the can adapter (KU-1004) into the recess of the viscometer base. The deep side of the adapter should be facing down. Place the ½ pint can directly into the adapter.

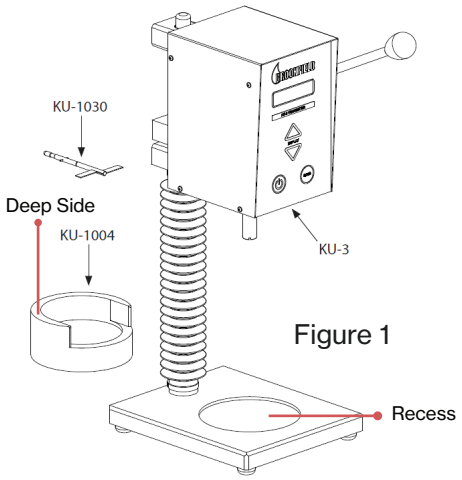

Figure 1

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Measurement Process

- Pour the sample into the container. Fill to ¾ inch (20 mm) below thecontainer lip.
- Bring the sample to the specified temperature.
- Press the KU-3 power key (see Figure 2).
- Select the desired display (KU, g, or cP) using the up/down arrows. (This setting may be changed at any time during the test)
- For Quart Cans: Place the sample container on the Viscometer base.
- For Pint & ½ Pint Cans: Place the sample container directly on the can adapter mounted on the viscometer base.
- Move the viscometer handle down to the lowest position. This will automatically immerse the spindle into the fluid. If the correct amount of fluid has been put into the container, the surface of the fluid will be at the immersion mark of the spindle.
    - CAUTION: When using the ½ pint can, do not lower the spindle directly into the container. The narrow diameter of the can requires the spindle to be introduced at an angle. Tilt the ½ pint can while lowering the viscometer.
- The spindle will begin to rotate once the handle is within ½ inch of the lowest position.
    - CAUTION: Do not touch the spindle or shaft while it is rotating.
- Touching the spindle during rotation may cause the KU-3 to overrange "EEEE". An over-range condition may damage the sensing system of the KU-3 viscometer.
- Wait 5 seconds for the display reading to stabilize. A display of "EEEE" indicates an over range condition.

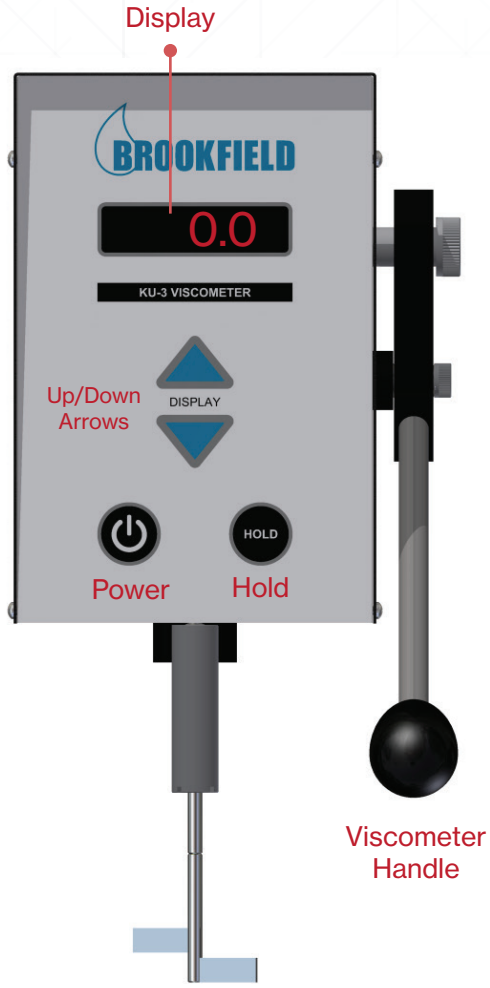

Figure 2

- Press the HOLD key (see Fig. 2). The up/down arrow keys may be used to change the display.
- Raise the viscometer handle to the top position. This stops the spindle from rotating.
    - Note: When using ½ pint cans, to remove the spindle you must lift the can and slightly tilt the can to move the spindle outside of the can.
- Pull down the spindle to remove it for cleaning.

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