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Supplier of Quality Force Measuring & Weighing Equipment Since 1932

Product Information

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By: KRD

Setting Up the BG05CF Gage

The BG05CF gauge is shipped ready for COF measurement. When the units are set to COF the display will show CCW PEAK at the end of the test. **If any other units are displayed press the units key until CCW PEAK is displayed.**

Step one: Turn on the gauge by pressing and releasing the Power key. When it is turned on the display will read out "A" telling the user that it is in the average mode. A flashing "A" indicates the gage is taking a reading.

Step two: With no load applied to the COF gage press and release the Zero key. This will set the measurement base line for measurements, therefore, it is very important that there is no load on the gage.

Step three: Run your test. After the test the display will flash "A" alternating with a number. The number is the kinetic coefficient of friction. To view the static coefficient of friction press and release the Mode key twice (above the number will also be displayed **CCW PEAK**). To return to the kinetic coefficient of friction reading repeatedly press the Mode key until the display reads a steady or flashing "A".

Step four: To run another test remove the previous sample and prepare a new sample. Reset the gage to take the next reading press and release the clear key. **DO NOT PRESS THE ZERO KEY** because this will establish a new zero baseline. If the Zero key is depressed go to Step two.

Programming the BG05CF

The default settings for the COF function are (refer to the users guide Section 3 for configuration options):

FltA – FA 0

FLTd – FC 1 and FP 1

232 – 232d, 9600, 8-In, and Ft F

out – bcdE, POL,

Aout – no

Aoff – 10

Init – no units showing, A (if A does not show as an option continue to the next step to set AE, then advance through the settings to Init. You will now be able to set the "A" option.

A – A E

dEI – 3.0

At – 60.0

trF - .0500, ccw(press advance key to change)

The functions that are critical to COF measurements are:

- **Init** sets the initial units setting when the BG05CF is turned on. When the no units are showing it is in the COF mode.
- **A E** indicates that the average mode has been enabled
- **dEI** sets the time delay before averaging will begin. It is normally set to 3.0 second so that the initial reading (static coefficient) is not included in the average COF (Kinetic COF).
- **At** sets the amount of time in which the measurements will be averaged. After the set time the BG05CF will display the average COF (kinetic COF). The time is normally set to 60.0 seconds.
- **trF** sets the trigger force in COF. The BG05CF will not begin to record a measurement until this COF value has been reached. The trigger value is normally .05 COF. This feature allows for slack to be taken up in the sled cable. **The units must be set to ccw.**