








This short manual is no replacement of the actual MINIDIS OPERATION manual! Please, read the manual first to ensure complete functionality of the instrument.

GETTING STARTED


The keys on the front panel have the following functions:



	.....	Stop measurement at any time / Escape a menu
	.....	Start measurement
	.....	Execute a selected operation / Enter a value or name
	.....	Execute special functions
,	.....	Modify characters
	.....	Change the cursor position

- Place the MINIFLASH on a solid bench top.
- Make sure the line voltage corresponds to the voltage setting above the power inlet on the rear of the Instrument and switch on the instrument.
- The display of the instrument is now illuminated and shows the main menu:




SETUP MENU










In the Main menu; shift the cursor to **setup** and press .


- Select the desired temperature unit with or without barometric pressure correction by placing the cursor at \uparrow [C] and pressing the  and  keys.

MEASURING ACCORDING TO ASTM D6450




1. Use a **4ml test cup** with **1ml sample** for this test procedure.
2. In the start-up menu select the *measuring routine* **lid** (test cups WITH lid), **open** (test cups WITHOUT lid) or **single** (1 test cup WITHOUT lid) and press . The display changes to the *programming mode*:

1	*	SAMPLE	ID	30-	60C	D6450	-	%
2	*	SAMPLE	ID	30-	60C	D6450	-	%
3	*	SAMPLE	ID	30-	60C	D6450	-	%
4	*	SAMPLE	ID	30-	60C	D6450	-	%
5	*	SAMPLE	ID	30-	60C	D6450	-	%
6	*	SAMPLE	ID	30-	60C	D6450	-	%
7	*	SAMPLE	ID	30-	60C	D6450	-	%
8	*	SAMPLE	ID	30-	60C	D6450	-	%







3. Move the cursor to * and press  and  simultaneously to switch between the different measuring programs the **free programmable menu** or the **fixed program for D6450 and the new D7094**.
4. Shift the cursor to the 3rd column and set the value for the *Initial Temperature* (Ti) at least 8°C below the expected flash point temperature.
5. Move the cursor to the 4th column and set the *Final Temperature* (Tf) safely above the expected flash point temperature.
6. To activate the **sample stirrer** during a test press  on **-** in the 8th column: **-** changes to **S**. Don't forget to add a stirring magnet to the sample cup. To switch off the stirrer; press  again on **S**.
7. Fill the test cups with cooled sample (below the Initial Temperature) and put them on the carousel.
ATTENTION:
In case you selected the **lid** mode; don't forget to put the lids on the sample cups.
In the test mode **open, single; DO NOT** use the lids!
8. Place the sample carousel onto the turn table; close the top of the tester and press  to start the test.
9. When MINIFLASH reaches the flash point temperature of the sample, the result will be displayed:
Tflash = xxx C (or F), or in case no flash point is detected: **No flash**
10. Pressing  will shut off the audio alarm. The oven is automatically cooled down to the starting temperature.
11. Press  and  simultaneously to switch back to the *programming mode*.
12. Tilt the tester when the GREEN LED is ON and take out the sample cup tray, drain and clean the cups, fill the samples and place the carousel. Press  to start the next measurements.

You can stop each procedure any time by pressing the  key.

MEASURING ACCORDING TO THE NEW ASTM D7094 METHOD

1. Use a **7ml test cup** with **2ml sample** for this test procedure. (See back of the cup for 2ml marking.)
2. Select the *measuring routine* **lid**, **open** or **single** as described above for the ASTM D6450 method.
3. Switch the MINIFLASH into the **D7094 measuring program** with  and  on *
4. Select the **Initial Temperature** (Ti) and **Final Temperature** (Tf) as described above.
5. All other parameters for the **new D7094 method** cannot be changed and are fixed programmed.
6. Press  to start the measurement.

SAMPLE ID

1. In the **Main menu**, shift the cursor to the required *measuring routine*; **lid**, **open** or **single** and press .
2. Shift the cursor to a letter of the sample ID and change the letters with  or .
3. To switch faster through the alphabet and numbers you can press  together with the  or  key to overjump steps of 10 characters.