

This short manual is no replacement of the MINIFLASH operation manual or ASTM standards!
Please read the operation manual first to ensure complete functionality of the instrument.

GETTING STARTED

The keys on the front panel have the following functions:

- STOP / ESCAPEStop measurement at any time / Escape a menu
- RUNStart measurement
- TASK / ENTERExecute a selected operation / Enter a value or name
- SHIFTExecute special functions
- ▲ and ▼Modify characters
- ← →Change the cursor position

Place the MINIFLASH on a bench top with unobstructed air-flow to the rear side and from the right-hand side of the instrument.

Switch on the instrument with the power switch above the power connector.

The display of the instrument is now illuminated and shows the main menu:

```
*****  
CCA-FLP    Vers. 4.26    24/07/2006 16:02  
*Measure   *Printer     *Setup  
*****
```

The instrument is now ready to use.

SETUP OF THE MINIFLASH

CHANGING THE TEMPERATURE SCALE

1. Shift the cursor to *Setup and press TASK.
2. Move the cursor to *unit and press TASK again.
3. Set the cursor on [C] and select the unit with the ▲ and ▼ keys.
Possible scales are: C (degrees Celsius)
Ccorr (degrees Celsius, correlated)
F (degrees Fahrenheit)
Fcorr (degrees Fahrenheit, correlated)
4. Press TASK on ← to leave the Setup menu.

SAMPLE IDENTIFICATION

In the main menu, shift the cursor to *Measure and press TASK.

Move the cursor to *ANISOL and press TASK again. The menu for name editing appears:

```
*****  
← prog:1 ANISOL      (← # ANISOL  )  
*OK No.: 1( 0)      T= OFF : 0.0 % gn  
*****
```

The sample identifier after, e.g. **ANISOL**, is set by placing the cursor over a character and changing it with the ▲ and ▼ keys. Pressing RUN together with ▲ or ▼ advances in steps of 10 characters.

MEASURING ACCORDING TO MCCCCFP METHOD (ASTM D7094)

Use a 7ml test cup with 2 ml sample and the stirring magnet for this test procedure.

1. In the main menu shift the cursor to ***Measure** and press **TASK** to select this method with the **▲** and **▼** keys on **↓** in the second line of the display.

```
*****
< *↑_ S No:1 *ANISOL      Ti= 25 Tf= 60 C
↓ D7094                    Toven= 24.3 C
*****
```

2. Select the Initial Temperature **Ti** and Final Temperature **Tf** as in accordance with ASTM standard D7094: **Ti** has to be at least 18 °C below the expected or actual flashpoint.
3. Move the cursor to **Tf** and set the *Final Temperature* above the expected flash point temperature.
4. When the oven temperature has reached **Ti**, the display changes to:

```
*****
*↑_ S      ANISOL          Toven= 25.0 C
fill sample, press RUN    Tsample= 24.9 C
*****
```

The sample to be tested has to be cooled below **Ti**. **Toven** indicates the actual *Oven Temperature*.

5. Fill the cooled sample into the sample cup and place the cup in its holder.
6. Press **RUN** to initiate the measurement process.
7. When MINIFLASH detects the flash point temperature of the sample, the result will be displayed:

```
*****
*↑- END ANISOL          Toven= 40.2 C
cooling      Tflash = 43.0 C
*****
```

The oven is actively cooled down to the starting temperature.

Press **STOP** to get back to the main menu and start with the next sample.

The oven temperature remains at **Ti** and MINIFLASH is ready for the next measurement.

MEASURING ACCORDING TO ASTM D6450

Use a 4ml test cup with 1ml sample and the stirring magnet for this test procedure.

1. In the main menu shift the cursor to ***Measure** and press **TASK** to select this method with the **▲** and **▼** keys on **↓** in the second line of the display.

```
*****
< *↑_ S No:1 *ANISOL      Ti= 25 Tf= 60 C
↓ D6450                    Toven= 24.3 C
*****
```

2. Continue with Point 2 of the D7094 method.