

**This short manual is no replacement of the actual MINIDIS 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 / ESCAPE | ... | Stop measurement at any time / Escape a menu |
| RUN | ... | Start measurement |
| TASK / ENTER | ... | Execute a selected operation / Enter a value or name |
| SHIFT | ... | Execute special functions |
| + and - | ... | Modify characters |
| ▲ ▼ and ◀ ▶ | ... | Change the cursor position |

Place the MINIDIS on a bench top.
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:

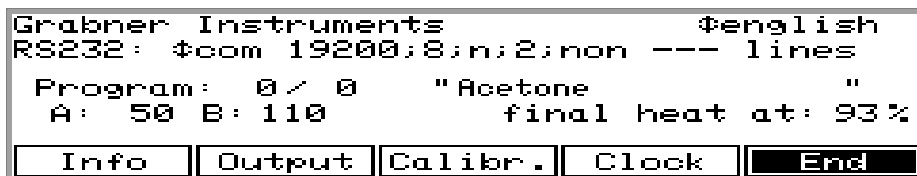


The instrument is now ready to use.

SETUP OF THE MINIDIS

In this menu, some instrument parameters can be set for optimum operation.

1. In the main menu shift the cursor to **SETUP** and press **TASK**:



CHANGING UNITS AND DEFINING SPECIAL DISTILLATION POINTS

In this menu, the units for temperature and barometric pressure can be selected.

2. In the setup menu shift the cursor to **OUTPUT** and press **TASK**:
3. Shift the cursor to **↑C** and switch between C (°C) and F(°F) with the + and - keys to select the desired unit
4. Same procedure for pressure: switch between kPa and PSI with the + and - keys.
5. To define a % evaporated point at a certain temperature, select the respective output group, enter the temperature of interest to **E xxx**.
6. Exit the **OUTPUT** menu by pressing **TASK** with the cursor at **END**.

SELECTION OF DISTILLATION GROUPS AND HEATING RATE

1. Distillation groups
To change the setting for a specific group and program, proceed as follows:

2. In the SETUP menu move the cursor to **PROGRAM 0 / 0** and select the desired **GROUP** with the cursor located on the first number with the + and – keys. Then shift the cursor to the field right beside the slash (/) and select the program number (0 to 19).
3. Setting of initial and final heating power
To change the value of A (Initial Heating Power) and/or B (Final Heating Power):
4. Move the cursor to A: and/or B: and increase/decrease the value with the + / - keys until the desired value is displayed.
5. To change the percent recovered when the final heat adjustment is activated, move the cursor to the numeric field right beside **“final heat at:”**
6. Exit the setup menu by pressing TASK with the cursor at END. The values of A and B for that group and program will be stored automatically together with changed settings for the final heat adjustment.

PERFORMING MEASUREMENTS

1. Fill about 100 to 200 mg of the anti-bumping granules into a sample cup.
2. Weigh the sample cup and note the weight.
3. In the main menu move the cursor to **Measure** and press TASK.
4. Enter a sample ID (sample name) that characterizes the type of sample and measurement by moving the cursor to the top line Sample ID: changing the sample ID with the **+ and -** keys.
5. Select the appropriate group and program number.
6. Enter the weight of the cup with the granules (given in grams).
7. Press RUN to start the measurement.
8. Open the lid on the right hand side of the MINIDIS and place the sample cup inside the sample cup carrier.
9. Wipe the ring on the bottom of the distillation column dry with a tissue or cotton tipped swab.
10. Close the lid and press TASK. The sample cup will be driven upwards and pressed against the distillation column.
11. When the cup has been successfully detected, the LCD changes to: **“Insert tube into sample container and press TASK”**.
12. Follow the instruction on the display and press TASK to confirm.
13. Once the rinsing and filling procedure is completed, MINIDIS will prompt the user **“to remove the tube form the sample container and to confirm with TASK”**. 6mL of sample is transferred into the sample cup, and the test is started.

After the instrument has detected the final boiling point at the end of the test TCup decreases below 60°C and the heater is lowered to release the sample cup.

14. The LCD now shows: **“Remove sample cup and press TASK”**. Do so by using the specially developed cup extraction tool that is delivered with the MINIDIS.
15. Weigh the sample cup and its contents and enter the weight on the instrument in the line **CUP WEIGHT**.
16. Press TASK. The last performed measurement is the one in the upper line. **Press TASK with the cursor at RESULT to display the result list**.
17. Browse through the list line by line with the **▲ and ▼** key's. To jump a complete page up or down, press SHIFT and **▼** or **▲** simultaneously.
18. Press STOP to return to the result menu.