Quick guide

TSS Portable Handheld Instrument

The instrument has two functions: turbidity measurement and suspended solids measurement. The appropriate probe registered to the handheld instrument should be used for measurements. Refer to the safety information in the manual before start-up.

An example of a turbidity measurement and a suspended solids measurement are given below. Refer to the manual supplied for further information and details on the instrument.

Turbidity measurement

A standard curve C-TU is stored for the turbidity measurement. Calibration is not required.

1. Connect probe to instrument.
2. To switch the instrument on, press **ENTER/ON** for 2 seconds.
3. Select **MEAS** and confirm with **ENTER/ON**.
4. Place probe in measuring medium.
5. Select **START** and confirm with **ENTER/ON**.

   Note: *The data is automatically saved every minute, max. 290 measurement points.*
6. To stop the measurement, select **MEAS** and confirm with **ENTER/ON**.
7. Select **STOP**, confirm with **ENTER/ON**.

Delete the saved measurement points:

8. Select **DATA** and confirm with **ENTER/ON**.
9. Select **DELETE DATA** and confirm with **ENTER/ON**.
10. Select **YES** and confirm with **ENTER/ON**.

Suspended solids measurement

For the solids measurement, calibration is required. There are 4 curves available: C-DS1, C-DS2, C-DS3, C-DS4. Each curve can be assigned to any measurement point. In the example, curve C-DS1 is selected.

1. Connect the probe to the instrument.
2. To switch on the instrument, press **ENTER/ON** for 2 seconds.

Select calibration curve

3. Select **MENU**, confirm with **ENTER/ON**.
4. Select **CALIBRATE**, confirm with **ENTER/ON**.
5. Select **CURVE C-TU** and confirm with **ENTER/ON**.

   Note: *Curve C-TU is the default setting.*
6. Select calibration curve **C-DS1** with the navigation keys **UP/DOWN** and confirm with **ENTER/ON**.

   The instrument reads the probe data and info text appears on the display.

Calibrate curve C-DS1:

7. Select **MEMORY** and confirm with **ENTER/ON**.

8. Lower the probe into a container that contains a homogeneous sample.

9. Select **POINT 1** and confirm with **ENTER/ON** while stirring the measuring medium with the probe.

The distance between the probe head and the walls and base of the container must always be more than 70 mm (2.76 in.).
It takes 5 to 20 seconds to record the calibration point; then the selection menu for calibration appears. While recording, the display shows the note "Memory".

10. Take the probe out of the container and clean it.

11. Determine the solids content of the sample in the laboratory.

12. Select ***POINT 1** and confirm with **ENTER/ON**.

13. Enter the laboratory value with the navigation keys and confirm with **ENTER/ON**.

- Navigation key **LEFT/RIGHT**: Jump to next/previous decimal place
- Navigation key **UP/DOWN**: Change number

The laboratory value is saved. The main menu is shown.

Note: *For broad measuring ranges, a second calibration point can be recorded. Up to three calibration points per curve can be recorded.*

Measure:

14. Select **MEAS**, confirm with **ENTER/ON**.

15. Select **START** and confirm with **ENTER/ON**.

Note: *Data is automatically saved every minute, max. 290 measurement points.*

Stop measurement:

16. Select **MEAS**, confirm with **ENTER/ON**.

17. Select **STOP**, confirm with **ENTER/ON**.

Delete the saved measurement points:

18. Select **DATA**, confirm with **ENTER/ON**.

19. Select **DELETE DATA** and confirm with **ENTER/ON**.

20. Select **YES** and confirm with **ENTER/ON**.

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