To set the printer to <Off> proceed as described:

1. Press ◁ or ▷. and select UTILITIES.
2. Press ☰ and enter the PIN (default = 11111).
3. Press ▷. and select Port A.

4. Press ↵ to enter Port A Submenu.

5. Press ▷. and select „Printer <On>“ or „Printer <Off>“.

6. Press ↵ to confirm the selection.

7. Press ↵ if you want to adjust more parameters.
8. Press Esc to switch to measuring mode.

➢ If you have changed the settings following display appears:

9. Press ↵ to save parameters or Esc to leave the menu without saving.

➢ If parameters are unchanged an according message appears and the analyzer turns to STANDBY automatically.

3.7 CuvCARDS - Load Cuvette balance to the analyzer

The analyzer cannot be operated without a loaded cuvette balance.
This allows loading a cuvette credit balance of original cuvettes by means of a cuvette card, so-called CuvCARD.
The individually loaded cuvette credit balance enables the analyzer to perform coagulation measurements in the same quantity of cuvettes as loaded to the analyzer.

! Note: Upon delivery the analyzer is preloaded with a cuvette balance that corresponds to the quantity of cuvette as delivered in the accessory box.

- ➢ Each unit of original cuvettes, suitable for the analyzer, is also equipped with a corresponding CuvCARD. This CuvCARD carries the same quantity of cuvettes as you will find in the box.
- ➢ Using the CuvCARD you can select, whether the total cuvette credit balance shall be loaded to the analyzer. Otherwise, if more analyzers of the same type are available, you can also load only the required number to the analyzer/s.
- ➢ Once the cuvette credit balance is fully used, meaning, if measurements of the same quantity as the loaded cuvette balance have been performed, the analyzer automatically requests to re-load (reminder to order new cuvettes if used up).

! Note: We recommend to load the total credit balance on either one analyzer or, if more analyzer are in the laboratory or, split it and load the necessary amount. REASON: If the credit card gets lost or is damaged the remaining balance is lost. If you do not want to load the total balance, store the CuvCARD at a dry and safe place.

1. Set the analyzer to STANDBY, the following display appears:

- ➢ Only in this state the analyzer can recognize CuvCARDS.

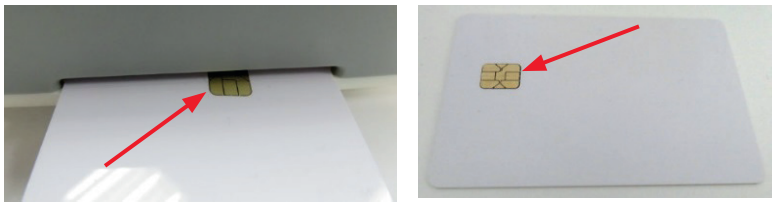


FIGURE 5
Insertion of CuvCARD with memory chip face up

2. Insert the CuvCARD face up into the reader slot (memory chip in the direction of insertion). Leave the CuvCARD in the reader.
- ➢ The following display appears:

Display	Meaning
<bookable>	Displays the quantity of cuvette balance still remaining on the CuvCARD
<debit>	Quantity of cuvettes on the CuvCARD which shall be loaded to analyzer.

3. Press 0 to 9 to enter the desired quantity of cuvettes to be loaded from the CuvCARD to the analyzer.

The following entries are possible:

- ✓ Minimum quantity
  = 100 cuvettes (if e.g. 99 is entered, a beep indicates the automatic input of a balance of 100)
- ✓ Maximum quantity
  = as displayed at <bookable>
- ➢ Entries between 100 and the maximum available quantity may be done in steps of 10 cuvettes, for example 100, 110, 120, ...200 etc.
- ➢ The following display shows the remaining balance of cuvettes still available on the analyzer.

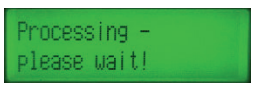
- ➢ This menu section only appears as long as the cuvette credit balance on the analyzer is larger than or equals 100 cuvettes.

! Note: When loading a cuvette balance from the CuvCARD to the analyzer, the remaining balance eventually still on the analyzer will be overwritten. Make sure the balance on the analyzer is fully used prior of loading a new balance from the CuvCARD!

4. Press ◁ or ▷ to select between the following options:

Selection	Meaning
<keep>	Remaining cuvette balance on the analyzer shall be kept, no loading from CuvCARD.
<overwrite>	Remaining cuvette balance on the analyzer shall be overwritten by loading a cuvette balance from the CuvCARD.

5. Press ↵ to confirm the selection.



6. Wait until the message appears to remove the CuvCard

7. Remove the CuvCARD from the reading unit and the analyzer automatically turns to the measuring mode “cuvette in”

➢ An automatic printout follows if the Printer is set to «On»

When the cuvette balance has been loaded, the analyzer will automatically print the following information:

CuvCARD balance	
loaded to	
HumaClot Junior	Type of analyzer
V00.00.xx	Actual software version of the analyzer
SerNo. Axxxxxxx	Serial number of analyzer
Date/Time:	Date and time of loading process
01.03.2017, 13:24:08	
--CuvCARD Info--	
Lot Number = xxxxxxxx	Lot Number. of loaded cuvette/mixer
Balance = xxx	Loaded balance on analyzer
Remaining balance	Remaining balance on CuvCARD
on CuvCARD = xxx	

! Note: To print a short overview of method relevant data e.g. Lot Number, remaining cuvette balance..., select the desired method, press ↵ to enter the measuring mode and then press 0 . The printout starts automatically.

! Note: Disposal of the CuvCARD may be done in the domestic waste after the cuvette balance on the CuvCARD is fully used and the CuvCARD is devalued.

3.8 ChipCards – Store or load methods

➢ ChipCARDs are used to load or store method specific information in or from the analyzer.
➢ The operator has the possibility to store method-specific data and parameters from the analyzer on the ChipCARD in case they are unintentionally changed and have to be reloaded.
➢ Also, the method stored on the ChipCARD can be transferred/ written to another analyzer.
➢ Unless a measurement is currently running, a ChipCARD can be inserted into the reading unit to read a method from the ChipCARD or to save a method to a ChipCARD at any time.
➢ If a ChipCARD has been read-in, no further adjustments need to be carried out on the analyzer, because the analyzer processes the data automatically.
➢ The method-specific data on the analyzer will be overwritten by the ChipCARD data.

- Only one method can be stored at the time on the ChipCARD.
- On the other hand, the operator has the possibility to set customized methods not stored as default by the manufacturer and write them onto a ChipCARD.
- If you want to order blank ChipCARDs please contact our sales department.
- For further information how to enter the menu, read chapter 4.8.1.5, and chapter 4.8.1.6.
- For troubleshooting see chapter 5.2.3.

3.9 Connection to a HOST (Port B)

For software activation of the HOST, see chapter 4.9.3.

- Port B = USB – B (Device).
- ✓ Install provided USB driver on the computer.

Mind the following order when switching on the devices:

1. Switch on the computer (do not open the user software at this point) and wait until it is booted.
2. Switch on the analyzer.
3. If available and activated a sound indicates the identification of the analyzer.
4. Then start the user software.
5. Set the user software to connect to the respective Virtual-Com port.
6. Set respective interface parameters in the User software (see “Options to set the analyzer settings”).

If the analyzer has been switched off in the meantime and has to be switched on again, follow the described order:

1. Stop the user software (close the program).
2. Switch on the analyzer.
3. Wait until the computer has identified the analyzer (beeps if sound are “on”).
4. Then start the user software.

4.8.5.1 Set Start Reagent Volume/ Reagent Lot. Number

Example for 3rd conversion Startreagent and Lot Number.
The Lot. No. can have an maximum entry of 12 characters.

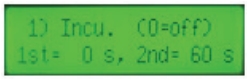
1. Enter the volume for the start reagent with the number keys , for example 100 µl.
2. Press ↵ to confirm the entry.
3. Use number keys to set numbers, press ↵ to switch to the next entry position, and press ◁ or ▷ to enter characters or decimals).
4. Press ↵ to confirm the entry.

! Note: Maximum entry: 1-250 µl.

! Note: Alternatively, if a barcode scanner is connected: Scan the barcode label of the reagent vial (max. 12 alphanumeric digits are imported as string). The Software automatically displays the next menu after the string was imported and displayed for 3 seconds.

4.8.5.2 Set Incubation time

! Note: For the PT method, the fist incubation time is set to 0 by definition. The actual value is assigned to the second incubation. If another parametrisation is set, the analyzer might change the measuring procedure which could lead to misleading results and interpretation.

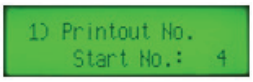


Example for PT-Method Incubation time of Start reagent.
NOTE: 0 s = no incubation, Max.: 600 s.

1. Enter the appropriate 1st sample incubation time for 1st = 0 s and 2nd =xxx s with the number keys .
2. Press ↵ to confirm the entry.

4.8.5.3 Set Start number for Print out

The next display appears.



NOTE: Max.: 3-digits (1-999).

- Enter the start number for print out by using the number keys .
- Press ↵ to confirm the entry.

4.8.5.4 Set Mixer function

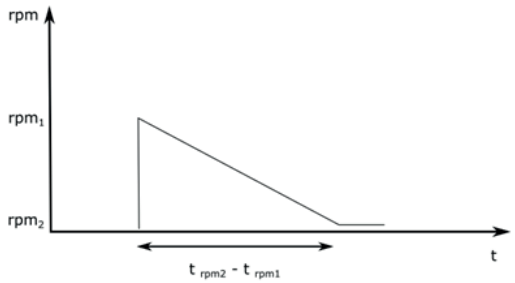
! Note: The mixer function is implemented to gently and properly mix the sample (and reagent). Before modification consult your local dealer or the manufacturer.

Example for PT-Method

1. Enter the time period [sec] between start of speed reduction to end speed.
2. Enter the starting speed (0, 200 - 800 rpm).
3. Enter the end speed (0, 200 - 800 rpm).

In this example the measurement will start with 800 rpm (rpm1) mixer revolutions and reaches 0 rpm (rpm2) after 5 seconds.
Function of mixer speed reduction

FIGURE 16
Function of mixer speed reduction



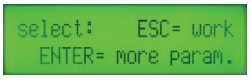
4.8.5.5 Set <Learn-/Lag times>

Example for PT-Method

- ➢ Here you can enter parameters for the optical detection of the sample.
- ➢ Learn [1...60 sec] phase: Thresholds definition phase.
- ➢ Lag [0...60 sec] phase: Time phase without measuring curve analysis.

! Note: Before any modification consult your local dealer.

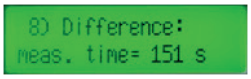
1. Press ↵ to confirm the entry.



2. Press Esc to access measuring or ↵ to set or verify more parameters.

4.8.5.6 Set Difference parameters for 3rd conversion

For 3rd conversion not the time of the clotting is measured but a kinetics.
Thus, two times, a start and an end time is necessary to calculate the difference.

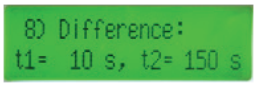


- ➢ The cursor blinks on the first entry position.

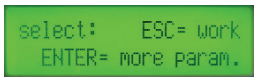
1. Enter the measuring time with number keys.
2. Press ↵ to confirm the entry and jump to set t1 and t2.

- ➢ The cursor blinks on the first entry position.

3. Enter t1 with number keys
4. Press ↵ to jump to t2 and enter the time with number keys.



5. Press ↵



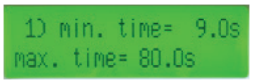
6. Press Esc until “checking parameters please wait” appears, then:

7. Press ↵ to save parameters or Esc to leave the menu without saving the changes.

8. Automatically STANDBY or the measuring mode is reached.

4.8.5.7 Set Minimum and maximum time

Here the minimum time after which a clot can be detected and the upper limit of clotting detection can be set.

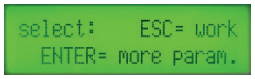


1. 1. The cursor blinks on the first entry position for “min. time”.
2. 2. Enter the min. time with number keys or confirm and proceed.
3. 3. Press ↵ to confirm the entry and jump to “max. time”.
4. 4. Enter the max. time with number keys or confirm and proceed.
5. 5. Press ↵ to confirm the entry.
6. 6. You jump automatically to the “meas. time” display.

4.8.5.8 Set measuring time

Here the total measuring time, depending on the test method (here aPTT), can be set.

1. 1. Enter the measuring time with number keys or confirm and proceed.
2. 2. Press ↵ to confirm the entry.
3. 3. Automatically the next display appears.



4. 4. Press Esc until “checking parameters please wait” appears, then:

5. 5. Press ↵ to save parameters or Esc to leave the menu without saving the changes.

6. 6. Automatically STANDBY or the measuring mode is reached.