These short instructions are a supplement to the operating manual and not a substitute. Please read the operating manual before using the Multipette M4/Repeater M4 for the first time.

General view

1 Selection dial
   There are 20 volume selection settings available.

2 Display
   - Switches on automatically when a dispensing tip is inserted
   - Switches off automatically after a certain period of non-use
   - Switches on if moved with inserted dispensing tip

Example of a display with a dispensing tip inserted:

steps during volume selection
Display of the possible dispensing steps for a dispensing tip that has been filled to capacity.

steps during dispensing
Display of the dispensing steps that have been carried out. The steps are counted up to 999, if dispensing tip is filled to capacity repeatedly. Counting re-starts, when dispensing tip has been emptied.

Volume
1 μL – 10 mL. Depends on the selection dial setting and the dispensing tip.

3 Operating lever
   For dispensing the liquid or for ejecting the empty dispensing tip.
   Push filling lever down before ejecting dispensing tip with operating lever.

4 Filling lever
   For filling or emptying the dispensing tip.

Adjustable dispensing volumes for dispensing tips
Multipette M4/Repeater M4 can only be operated with a dispensing tip Combitips advanced or ViscoTip.

<table>
<thead>
<tr>
<th>Selection dial</th>
<th>Dispensingsteps</th>
<th>0.1 mL</th>
<th>0.2 mL</th>
<th>0.5 mL</th>
<th>1.0 mL</th>
<th>2.5 mL</th>
<th>5.0 mL</th>
<th>10 mL</th>
<th>25 mL</th>
<th>50 mL light gray</th>
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<td>5.0 μL</td>
<td>10 μL</td>
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<td>50 μL</td>
<td>100 μL</td>
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<td>1.0 μL</td>
<td>2.5 μL</td>
<td>5.0 μL</td>
<td>12.5 μL</td>
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<td>0.6 μL</td>
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<td>5.0 μL</td>
<td>10 μL</td>
<td>25 μL</td>
<td>50 μL</td>
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</tbody>
</table>
Inserting the dispensing tip

- For 25 mL and 50 mL Combitips advanced only
  Before inserting, fit the Adapter advanced and tighten.
  Identical color code for Adapter advanced and Combitips advanced:
  red = 25 mL
  light gray = 50 mL

- Easy to insert
  Push and hold the operating lever while inserting the dispensing tip

Volume selection and steps

Select the dispensing volume using the selection dial.
Display of
- steps: possible dispensing steps*
- volume in μL or mL
The volume can be changed in between dispensing steps.

Filling the dispensing tip and reverse stroke

1. Filling
   Immerse the dispensing tip into the liquid to be aspirated and pull the filling lever slowly up as far as it will go. The display flashes.

2. Reverse stroke
   Push the operating lever and trigger a reverse stroke.*
   The reverse stroke is not a dispensing step!
   After reverse stroke: Display does not flash - display of steps: 0

Dispensing procedure

Push the operating lever slowly as far as it will go.
steps* displays the dispensing steps that were carried out.

Emptying and ejecting the dispensing tip

1. Push the filling lever down as far as it will go.
   This will empty the dispensing tip.
2. Push the operating lever all the way down.
   The dispensing tip is ejected.
3. For 25 mL and 50 mL Combitips advanced:
   Release the Adapter advanced from the Combitips advanced.

* For special procedure for partially filled dispensing tip refer to the operating manual for Multipette M4/Repeater M4.