How to use a reference fluid in Mastertronic

What do you need:

1) A pipette with good accuracy, and resolution of at least 0.1 ml and single use tips.

How to do:

1) Disconnect the ”sample in” hose from MT.

2) Start the test that corresponds to the reference fluid you have.

3) Now you will notice that the first rinsing phase in reaction chamber will be with no water as hose was disconnected and therefore magnetic rod rattle will be easy to notice.

4) When you have heard that FIRST session of magnetic rattle has stopped, then immediately pour 10 ml of the reference solution in the reaction chamber.

5) Now a second rattle session will soon be noticed, do NOT pour further sample water at this moment, but just let it be finished.

6) When you notice that needle will go to the right and stop above the rinsing chamber, to do the very first needle rinsing, THEN immediately pour reference fluid direct into the reaction chamber, and the volume to pour down is depending on which parameter you are testing:
   - Ca: 4.8 ml
   - Mg: 3.8 ml
   - Nitrate: 10.8 ml
   - Phosphate: 10.8 ml
   - KH: 7.8 ml
   - Iodine: 4.8 ml

7) Now just let machine continue with its algoritms, but still observe it. When needle is going further to the right and is located above a reagent vial for the first time, then connect back the sample water hose to the chassi. (NOT before).

8) When MT is completely done run a ”rinsing of reaction chamber” from maintenance menu.

/Jonas Roman, Designer, Focustronic