**TECHNICAL ASSISTANCE FORM - ION METER**

Make sure to fill (in CAPITALS!) the complete checklist (all points!) and send a copy to Consort:

fax:+32/14/429179 • e-mail: support@consort.be

*Tip! download “More about ion selective electrodes” from www.consort.be for more information!*

1. model:  
2. serial number:  
3. purchase date:  
4. purchased from:  

5. organisation:  

6. division:  

7. name:  
8. first name:  

9. address:  
10. street number:  

11. postal code:  
12. city:  
13. country:  

14. telephone:  
15. telefax:  
16. e-mail:  

**Very important for all next steps!**

- only fresh calibration solutions should be used!
- all calibration solutions should be maintained at room temperature.
- rinse the electrode **twice** between measurements: first thoroughly in distilled water and then with a small amount of the next solution to be measured.
- always **stir** the solutions while measuring (use a magnetic stirrer!).
- allow the electrodes **sufficient** time to stabilise while measuring (a stability indicator on most of our meters prompts the user when readings should be taken).
- **Never calibrate during this test!**

**Perform the following steps:**

17. prepare the ion selective electrode (ISE) according to its manual (**OBLIGED**!).
18. prepare a fresh ISA solution.
19. prepare a fresh calibration solution of 1000 ppm and add 2% of ISA solution.
20. prepare a fresh calibration solution of 100 ppm and add 2% of ISA solution.
21. reset the meter (**OBLIGED**)! switch on while holding MODE pressed.
22. select the mV mode (**OBLIGED**!).
23. short-circuit the pH/mV input (e.g. use a paper clip), read display: \[ mV \]
24. connect ISE, rinse, dip in 100 ppm calibration solution, read display: \[ mV \]
25. rinse ISE, dip in 1000 ppm calibration solution, read display: \[ mV \]
26. what is the temperature of the solutions? \[ °C \]
27. if any alarm occurs, what is **EXACTLY** shown on the display(s) ?