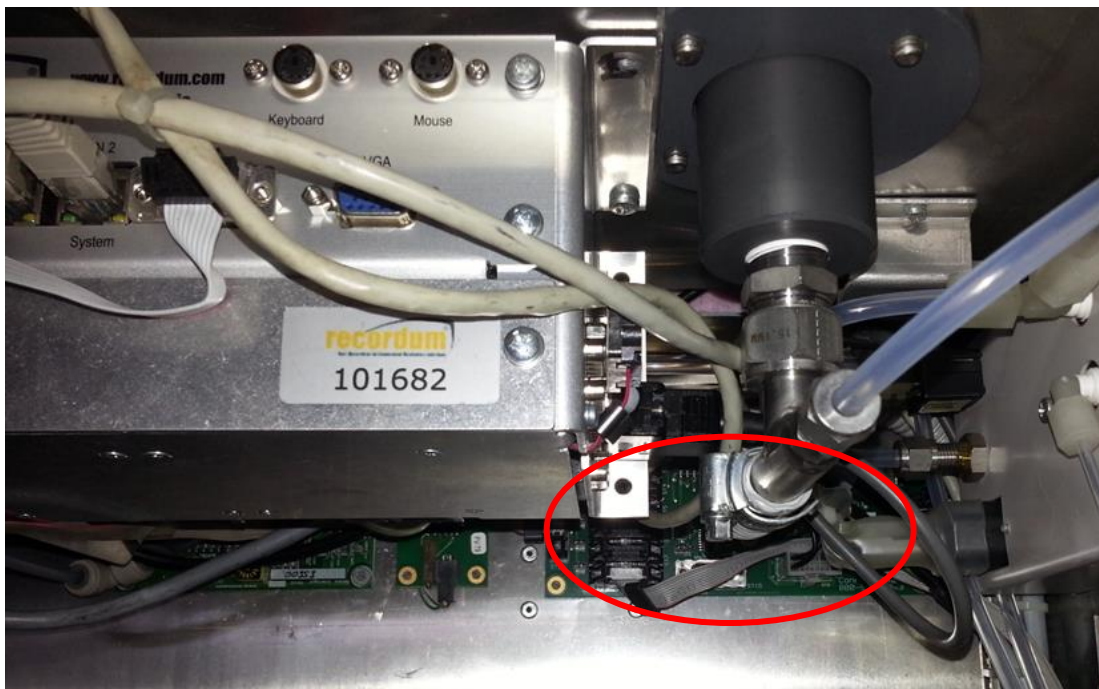# Base Unit - Checking the communication between the PC and the modules

The complete communication between the airpointer and its modules failed. This can happen in rare case and is most likely a bad flat cable connection somewhere in the airpointer which can inhibit all communication between the computer and the modules.
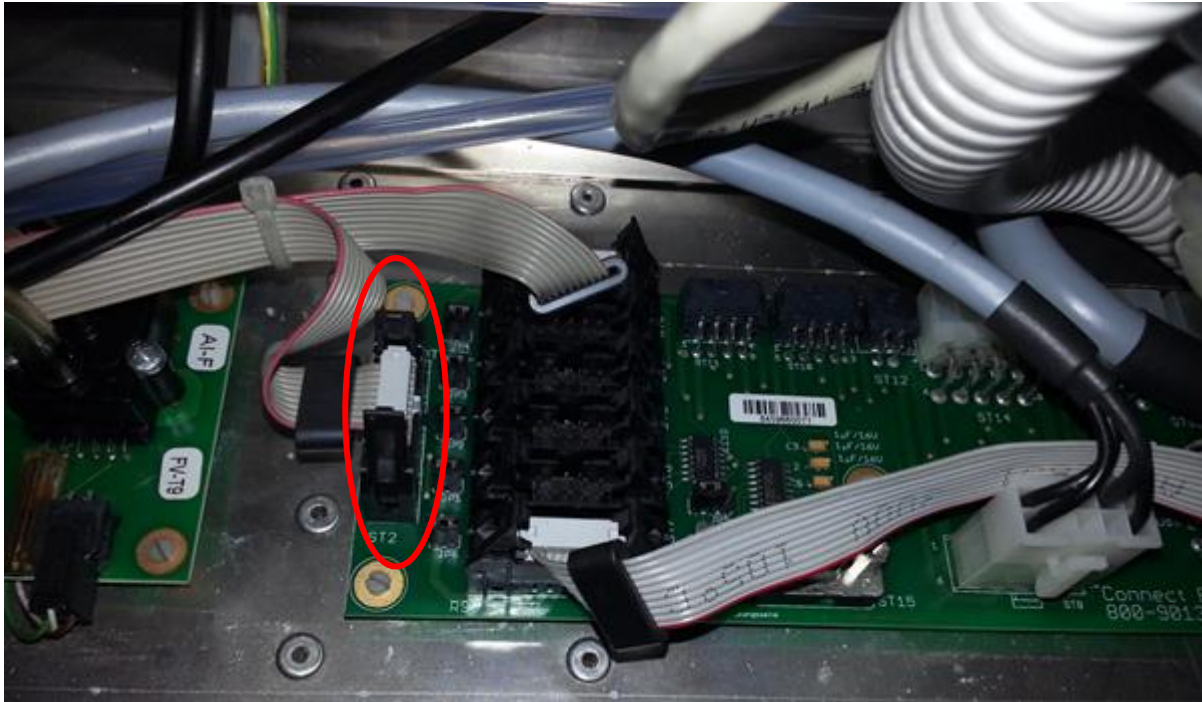
⚠️You can disconnect and reconnect the flat cables while the airpointer is running if you are careful, but it's recommended to turn off the airpointer before each disconnection/reconnection.

1- Locate the connect board

2- Start with the connection of the watchdog board (left from PC) to the Connect board (upper right side in the airpointer: disconnect the flat cable that links the connect board to the watchdog board

3- Wait two minutes, go to LinSens /Hardware and see if the watchdog board is responding now (no fail anymore for the watchdog board)

4- If still responding as "fail" in column "active" the problem is the watchdog board, the flat cable between Computer and watchdog board or the Computers COM port.

Home Actual Average Calibration NOx O3 System_Values Status StatList Software Hardware RS232
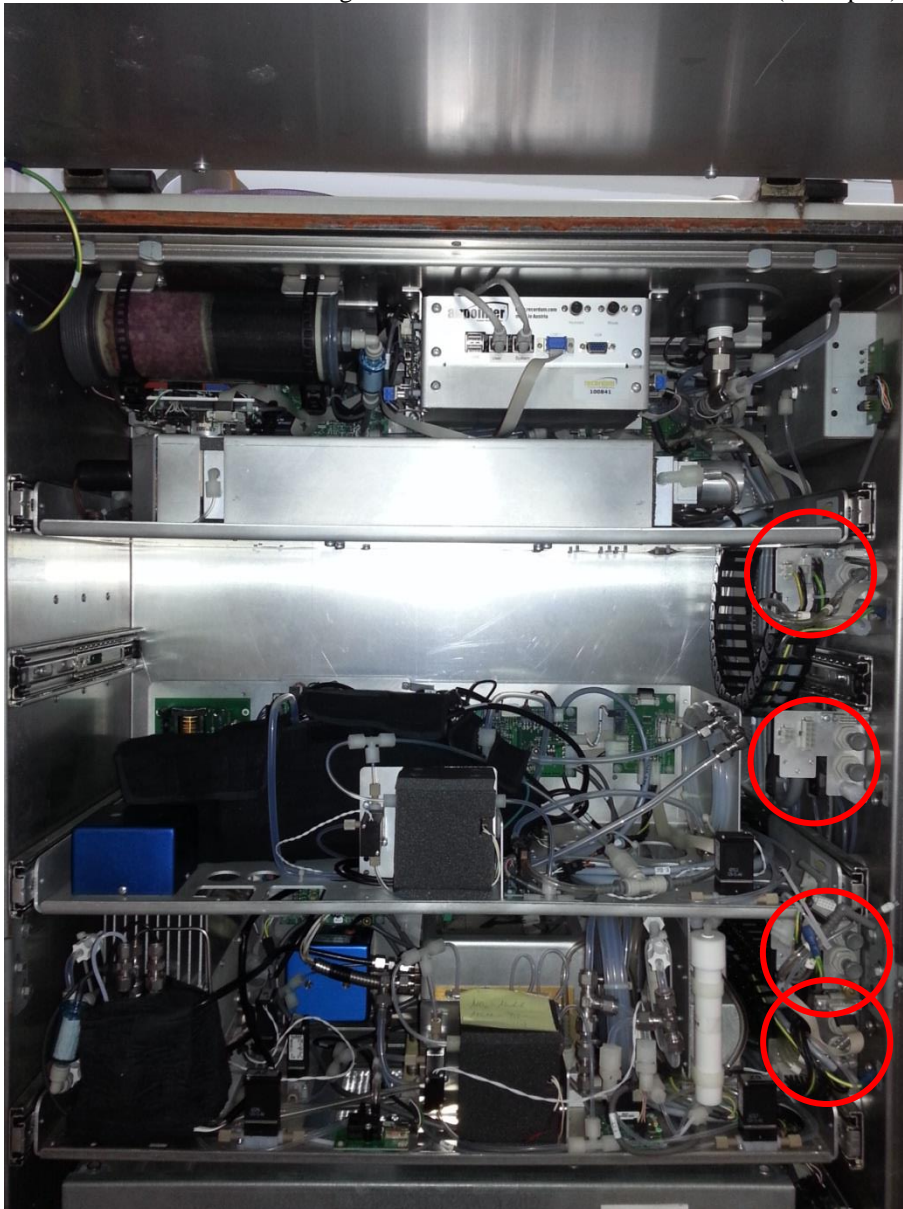
Hardware

n	Adress	Board	S/N	Software Version	Hardware Rev	Board Status	COM Errors	Confirmation error	active	Answer in [msec]	Last OK	do LR	last RL
1	000	Sensor Interface System			-	0	225	0	Fail	1010	-	-	-
2	030	ClimaControl			-	0	224	0	Fail	1010	-	-	-
3	031	PumpControl			-	0	224	0	Fail	1010	-	-	-
4	081	SensorInterface2 NOx			-	0	224	0	Fail	1010	-	-	-
5	083	SensorInterface2 O3			-	0	223	0	Fail	1010	-	-	-
6	097	ValveHeater2 NOx			-	0	224	0	Fail	1010	-	-	-
7	099	ValveHeater2 O3			-	0	224	0	Fail	1010	-	-	-
8	253	Watchdog			-	0	225	0	Fail	1010	-	-	-

Internal Communication

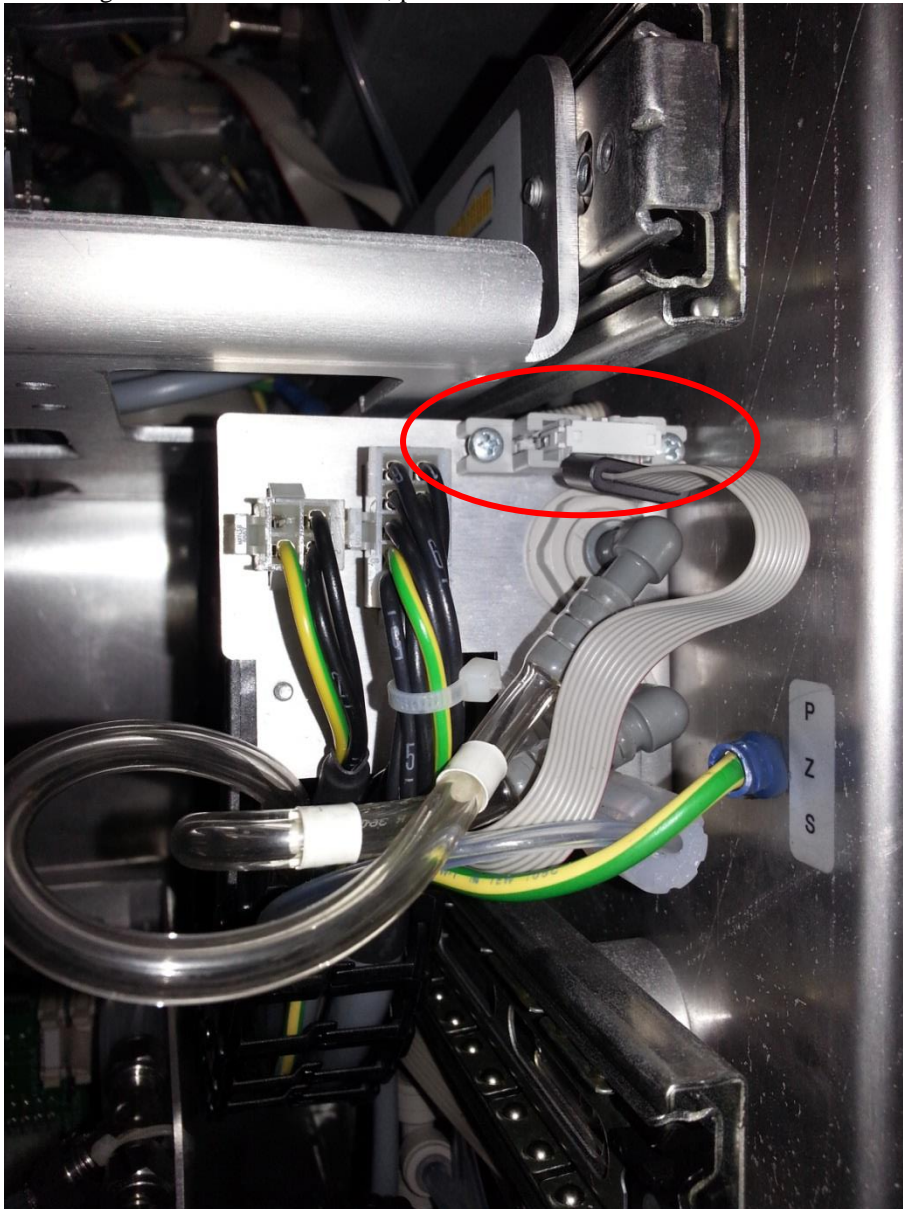| RS232 Messages/sec	RS232 Messages/sec average	Boards missing	Entries in Hardware interface buffer	Entries in Write DB buffer
1	1	8	0	0

Software Version

Software Version LinSens			2.120a	Date	16.Jun 2016
Analytical Module Version			1.001	Date	22.Apr 2008

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5- If the watchdog board is active, now disconnect the flat connection of all modules in the airpointer and reconnect the watchdog board connection to the connect board (cf. step 3-)

6- Reconnect the flat cable for one module, check if it causes the watchdog board in linsens/hardware to go to a failure mode. If not, proceed to the next module.

7- By plugging one connection after another in again, waiting some minute and observing the boards status in Linsens/Hardware you can locate the module/board causing the trouble

8- It can be that after this procedure, the problem is solved. If not, disconnect the module which causes problem and contact your distributor or MLU-Recordum