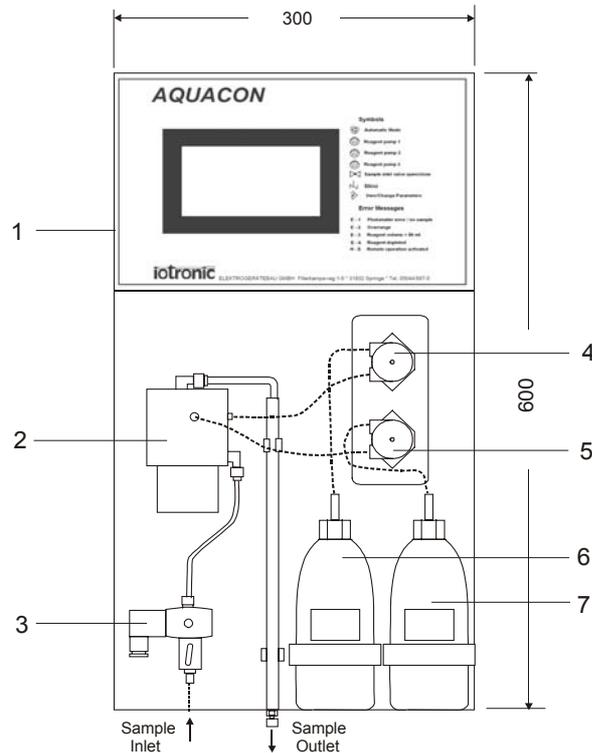


Start-up Instructions !



- 1 Transmitter
- 2 Measuring chamber
- 3 Sample inlet valve
- 4, 5 Tube pumps
- 6 Reagent 1 vessel (500 ml)
- 7 Reagent 2 vessel (500 ml)

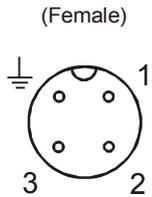
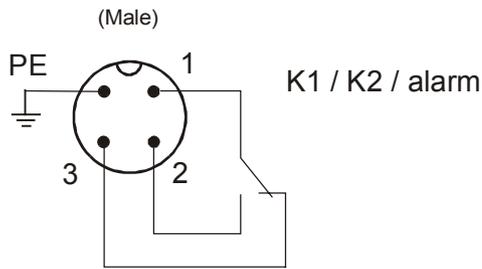
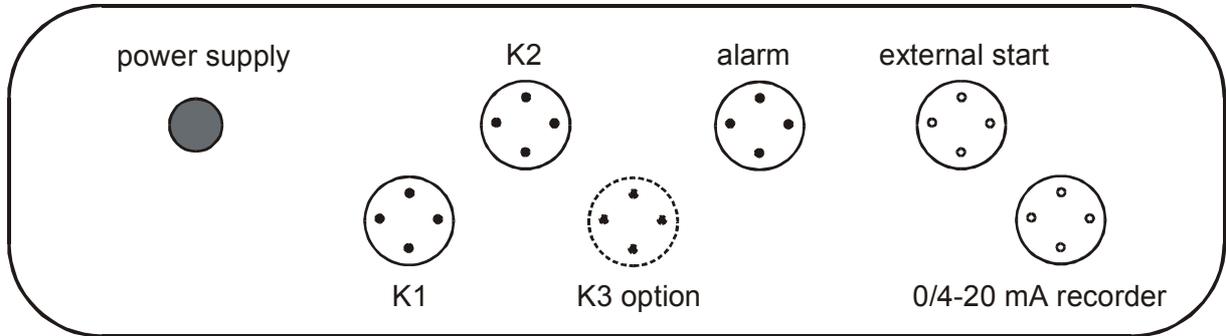
1. Connect inlet to the left (6/4), outlet to the right connectors (8/6), max. tube length 5 m.
2. Open the reagent vessel [6] top. Insert the suction hose into the reagent vessel. Lock up the vessel with the filler cap mounted on the hose. Put the vessel on the bracket.
3. Close tap valve [3]. Open system valve carefully.
!Caution! Maximum sample pressure 10 bar!
4. Connect power supply to device (110 – 230 V; 50/60 Hz). Press the button „Hand“ on the touchscreen of the transmitter [1] immediately to active the „Manual“ operation mode.
Select the sample inlet valve to „open“ by touching the button  on the touchscreen. Carefully open the manually-operated valve [3] beneath the solenoid operated valve to set the sample flow (20-30 l/h). Close the sample inlet valve.
5. Switch on the stirrer (button ) and the pump (button ) on the touchscreen in order to bleed the suction- and pressure tube. After bleeding the tubes switch off the pump and stirrer by touching again the appropriate buttons. If the analyser has more than 1 reagent, perform the same procedure with the second reagent [7] (button ) and if necessary also with the third reagent (button ) .
6. Rinse the measuring chamber by activating the sample inlet valve (button ) and stirrer (button ) in order to wash out the reagent entered while bleeding the tubes (**at least 2 times**)
7. Set up the user-defined parameters (see manual).
8. Select automatic operation (button ) . The device now operates in automatic mode and starts the measurement.

Perform 2 to 3 analyses. Regard correct filling by observing the measurement outlet tube with the selected sample flow conditions. When satisfied that the system is performing correctly, the parameter settings may be carried out prior to automatic operation.

If any problems should occur please observe the instructions of the operating manual !

Connections

In – and outputs are available at circular connectors at the top of the device.



external start: pin 1 / 2
 recorder 1 : pin 1 — + } 20 mA
 pin 2 — - }
 recorder 2 : pin 3 — + } 20 mA
 (optional) pin PE — - }

caution !
 do not connect any voltage
 to these terminals

power supply Power supply (110 - 230 V, 50/60 Hz)

PE protection earth

K1 Analysis status signal

K2 Limit value relay 1

external start potential-free input contact

alarm alarm limit relay

20 mA recorder 1 0/4 – 20 mA output (max. load 500 Ω)

20 mA recorder 2 0/4 – 20 mA output (max. load 500 Ω)

K3 Limit value relay 2

(optional)

(optional)



CAUTION: technical data !