1 STARTING THE SOFTWARE

The service software is started via the „METAdig“ icon.

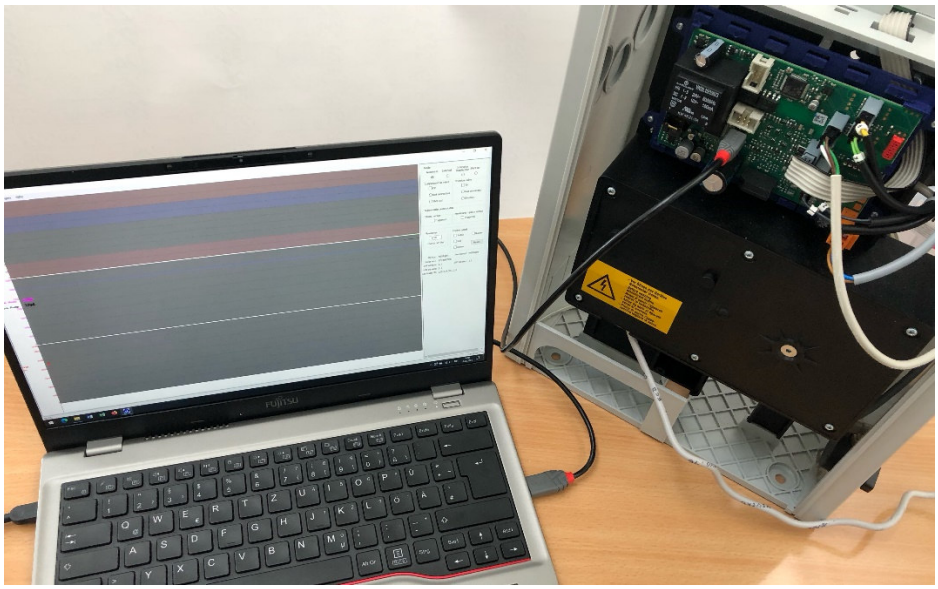
A grey screen appears.

2 CREATE A CONNECTION TO THE WEK LIGHT

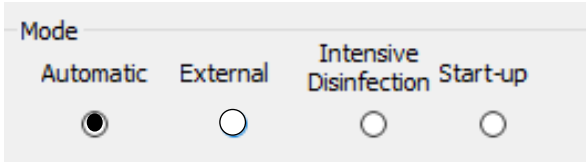
A connection to the device can be established via a mini-USB cable, which is connected to the laptop and the WEK Light main board.

3 SWITCH ON THE DEVICE

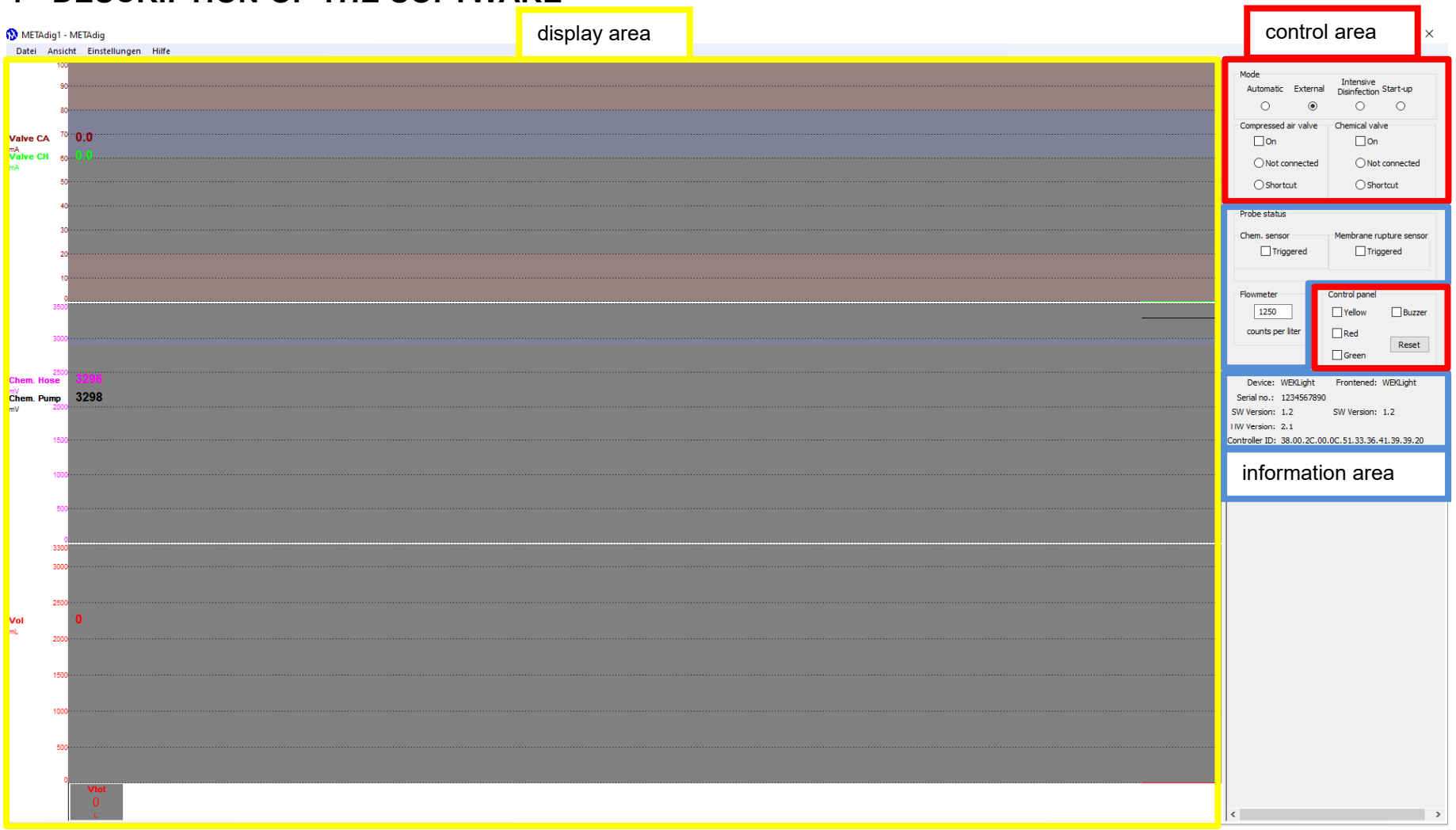
As soon as the WEK Light is switched on, the "Service" view opens automatically and the WEK Light is ready for operation.



„Automatic“ is displayed in the mode area.



4 DESCRIPTION OF THE SOFTWARE



Legend:
Valve CA [mA]…Valve Compressed Air → current display in mA of the compressed air valve
Valve CH [mA]…Valve Chemical → current display in mA of the chemical valve
Chem. Hose [mV]…Chemical sensor → voltage display in mV of the chemical sensor
Chem. Pump [mV]…Membrane rupture sensor → voltage display in mV of the membrane rupture sensor
Vol [mL]…Flow Meter → Display of the water flow rate on the flow meter (range 0 – 3300mL) Information: Then starts again at 0.

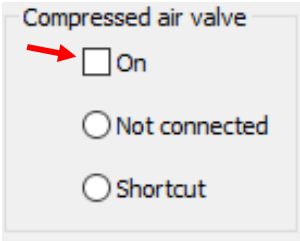
Vtot [L]…Flow Meter → Display of the total water flow rate on the flow meter since the last switch-on of the device (range 0 – 55 litres) → beginning from software version 1.2

5 FUNKTIONS

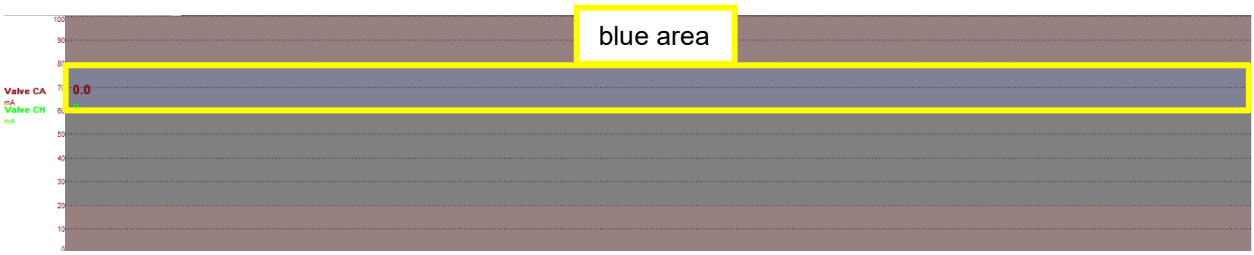
5.1 Testing the valve function

In the next step, the individual valves of the WEK Light are tested. To do this, click “on” in the area of the respective valve in the control area.

5.1.1 Compressed air valve – Valve CA:

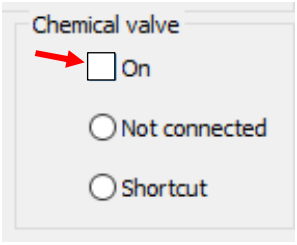


A click should now be heard at the valve and the valve current can be read in real time in the display area.

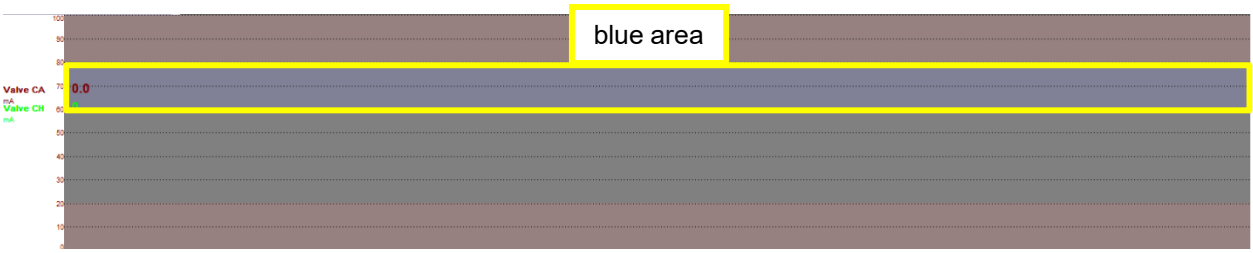


The valve current should be in the blue coloured area (between 60mA and 80mA). If the valve current is permanent above the blue area (>80mA), the valve must be replaced. Click „On“ again to deactivate the valve.
If the valve is defective or not connected, either the "Shortcut" or "Not connected" item must light up.

5.1.2 Chemical valve – Valve CH:



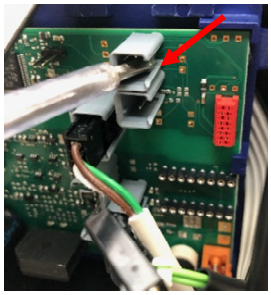
A click should now be heard at the valve and the valve current can be read in real time in the display area.

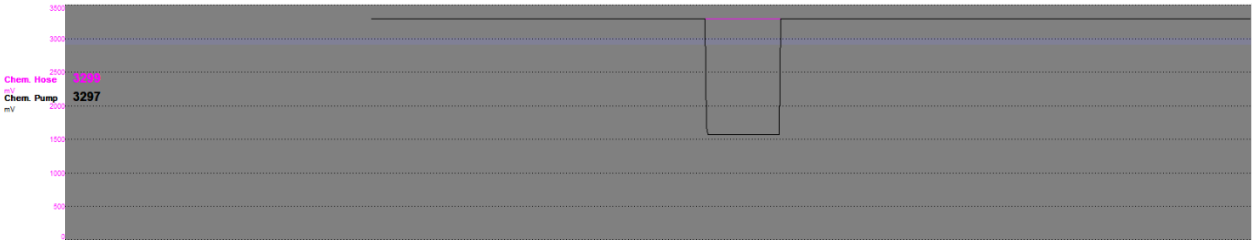


The valve current should be in the blue coloured area (between 60mA and 80mA). If the valve current is permanent above the blue area (>80mA), the valve must be replaced. Click „On“ again to deactivate the valve.
If the valve is defective or not connected, either the "Shortcut" or "Not connected" item must light up.

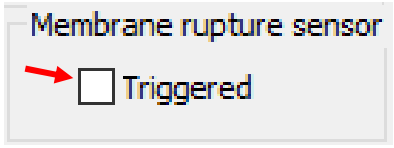
5.2 Function of the membrane rupture sensor

The function of the membrane rupture sensor can also be tested. To do this, the membrane rupture sensor (cable number 8) must be disconnected from the main board.
The two pins can be connected smoothly with a screwdriver (place the screwdriver without applying pressure) and the following graphic should then show that the sensor responds (Chem. Pump):





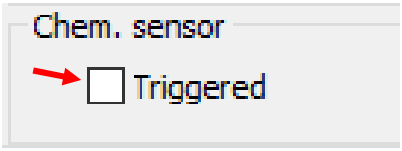
As soon as the sensor responds, “Triggered” is also displayed in the information area of the membrane rupture sensor:



5.3 Function of the chemical sensor

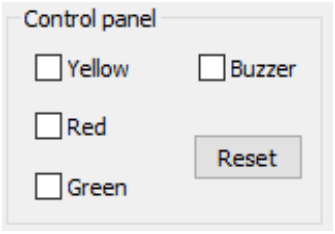
The function of the chemical sensor can also be tested. To do this, the chemical sensor (cable number 7) must be disconnected from the main board.
The two pins can be connected smoothly with a screwdriver (place the screwdriver without applying pressure) and the following graphic should then show that the sensor responds (Chem. Hose):

As soon as the sensor responds, “Triggered” is also displayed in the information area of the chemical sensor:



5.4 Function of the external display – Control panel

The function of the external display can also be tested. For this purpose, the individual LEDs on the external display can be switched on and off via the control area in the "Control panel" domain. The signal tone can also be checked

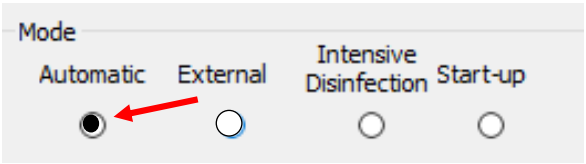


Yellow…LED Disinfection display – colour: yellow, disinfection display
Red…LED Malfunction – colour: red, malfunction
Green…LED mains voltage – colour: green, ready for operation
Buzzer… audible buzzer signal
Reset…Alarm reset button

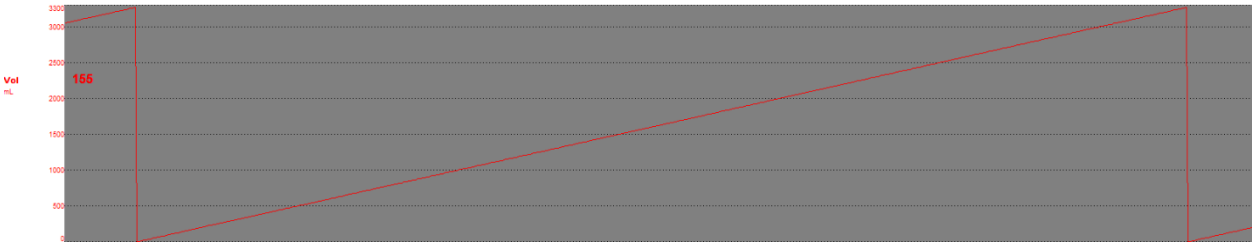
By clicking on the individual LEDs, the selected LED is switched on at the external display and switched off again by clicking again.

5.5 Checking the flow meter (during operation)

In the next step, the flow meter can be checked for function during normal operation. To do this, the mode is switched to “Automatic” in the control area with a mouse click.



A consumer (mouth glass filler, etc.) must then be activated on the dental unit. The function of the flow meter can be seen in the following graphics (range 0 – 3300 ml):



Beginning from software version 1.2:
As additional information, the total flow rate of water (range 0 - 55 liters) through the flow meter since the last time it was switched on is also shown in L (liters) at the bottom of the display area (Vtot.):

The value 1250 counts per liter must be displayed in the information area of the flow meter. For a WEK Light HEKA, the value must be 4250 counts per liter.

Standard:

HEKA: