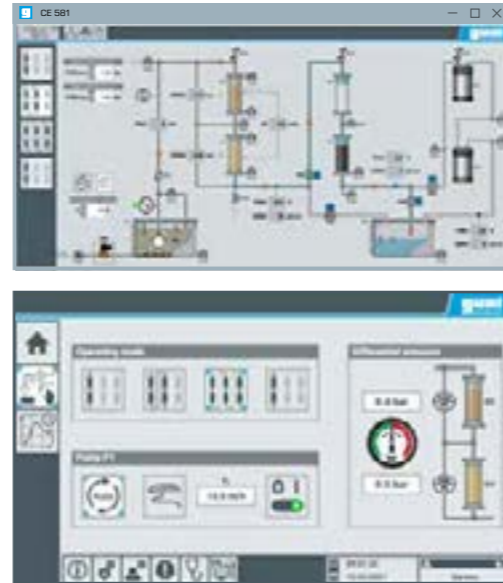


CE 581 Water treatment plant 1

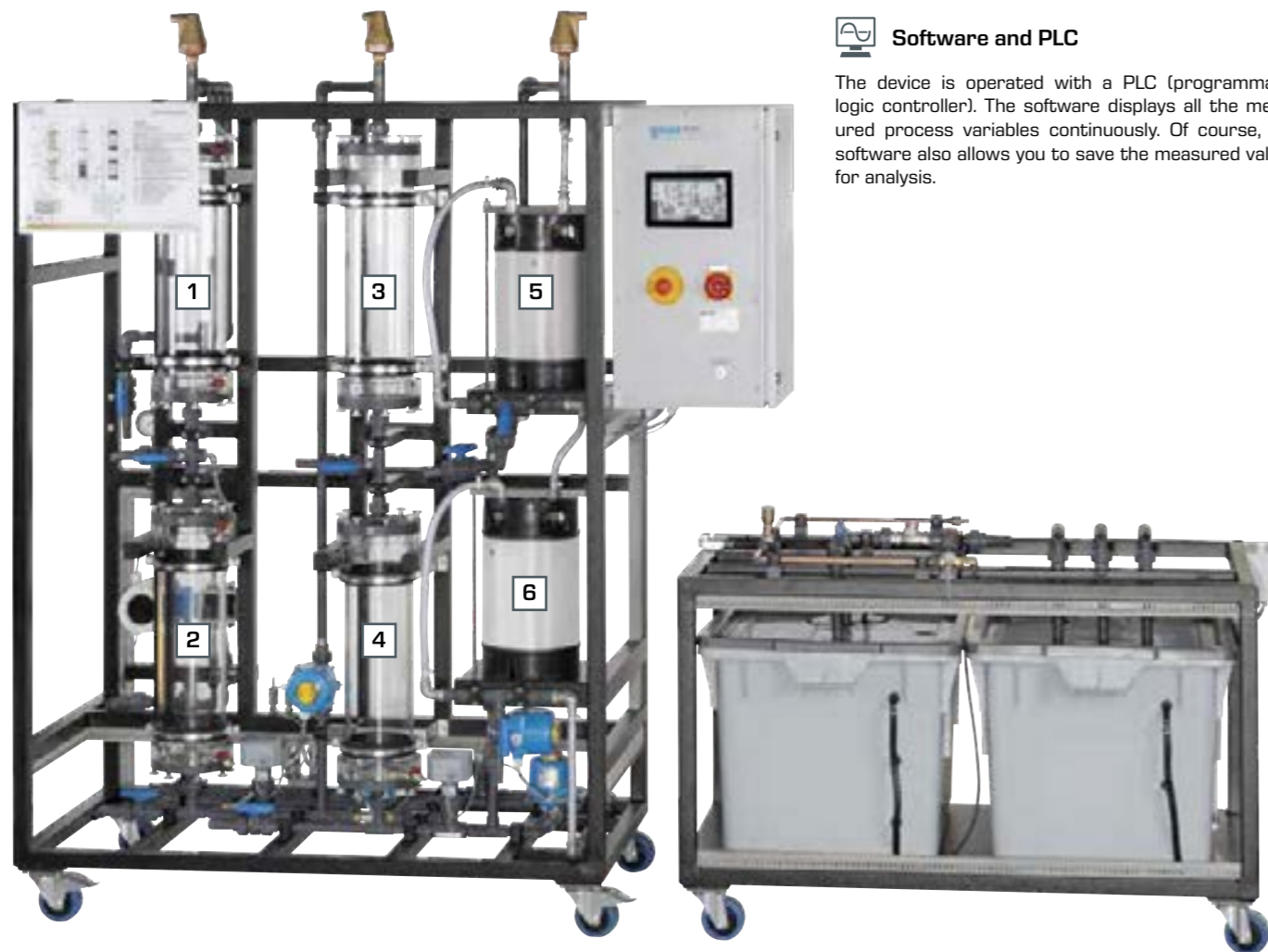
This device allows you to clearly demonstrate and investigate the features of multistage water treatment. There are six consecutive process steps available.

Depth filtration	1 gravel filter
	2 sand filter
Adsorption	3 aluminium oxide
	4 activated carbon
Ion exchange	5 mixed bed exchanger
	6 cation exchanger



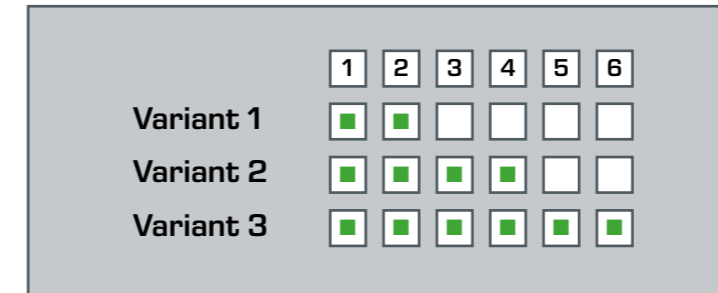
Software and PLC

The device is operated with a PLC (programmable logic controller). The software displays all the measured process variables continuously. Of course, the software also allows you to save the measured values for analysis.



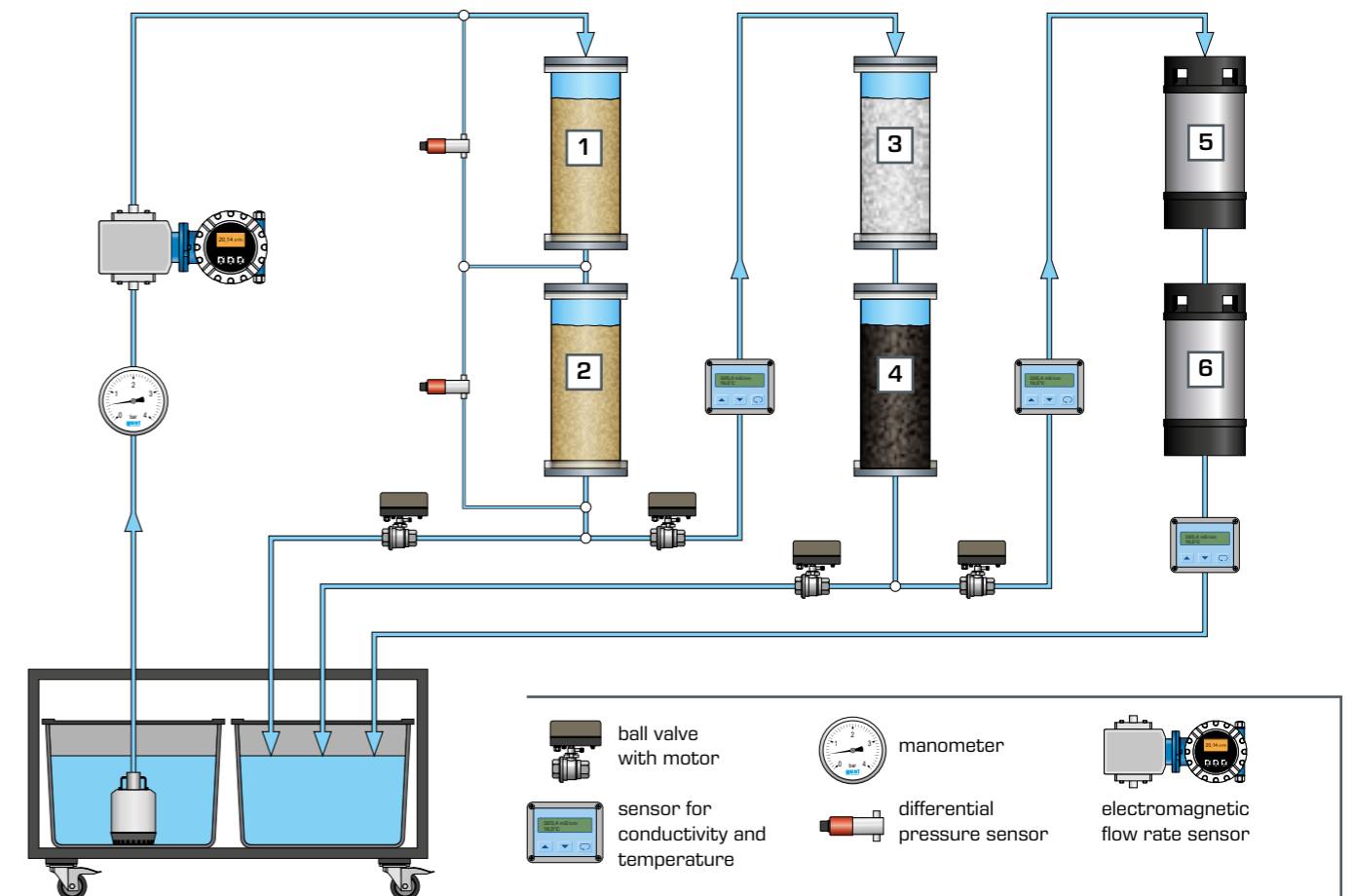
Operating variants

The individual process steps can be enabled or disabled separately. By adjusting electrically driven ball valves, you can choose between the following 3 operating variants:



Learning objectives

- learning the fundamental principle of the unit operations depth filtration, adsorption and ion exchange
- observation and determination of the pressure loss in depth filtration
- plotting of breakthrough curves (adsorption)
- comparison of various adsorption materials
- familiarisation with the fundamental principle of ion exchange



About the product:

