

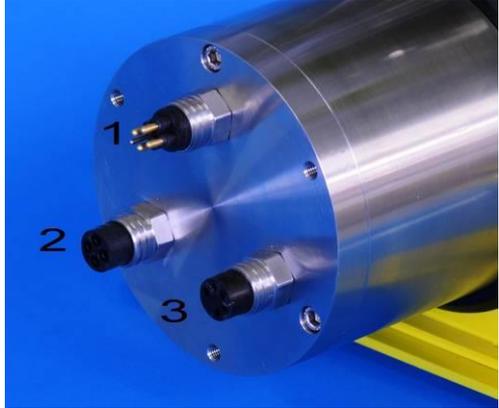
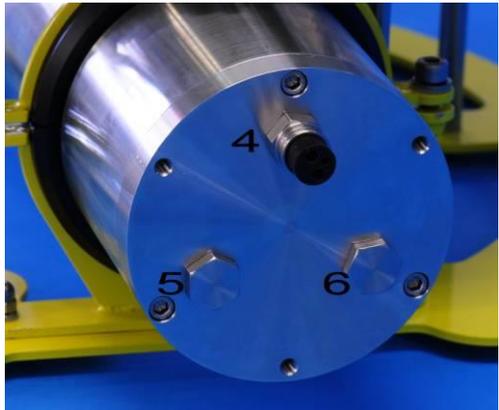
Multi water sampler
24 x 100 ml
Model 100.215

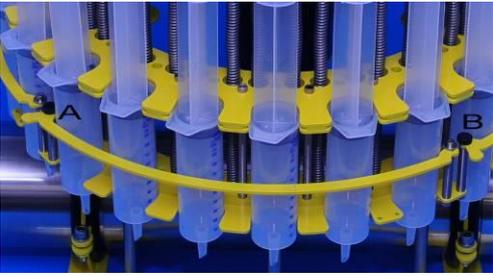
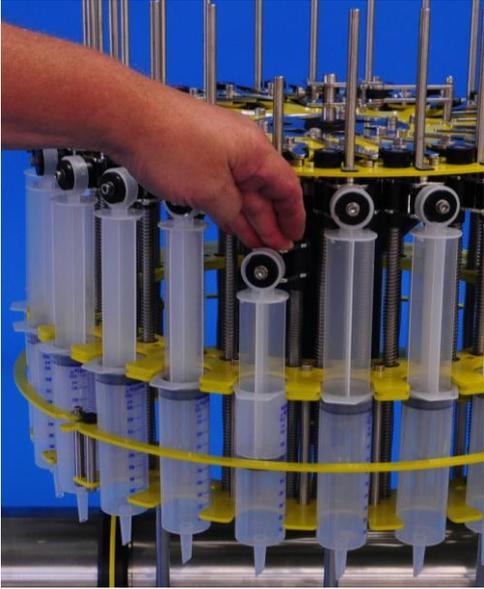
Manual

KC Denmark A/S

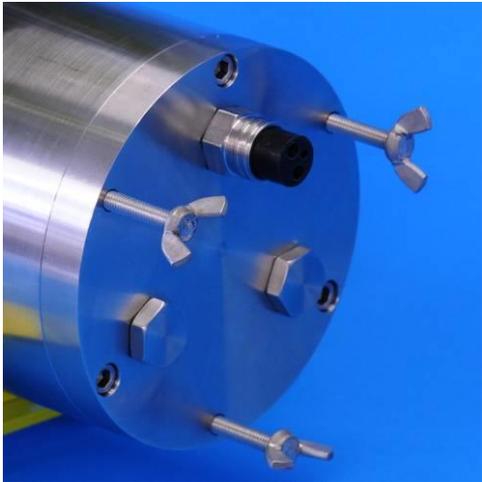
Research Equipment
Limnology • Oceanography • Hydrobiology

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	<p align="center">Manual for Multi Water Sampler</p>	<p align="center">Model no. 100.215</p>
	 <p>Caution</p> <p>The centre and the upper part of the motor have a very strong magnetic field.</p> <p>KC Denmark A/S is not, and cannot be held, responsible for any damage(s) made to equipment or to operators who ignore safety precautions or because of misuse or wrong operation.</p> <p>For long-term use in salt water, we recommend adding one or more zinc anodes to the rack to prevent corrosion.</p>	
	<p>Preparation:</p>	
<p align="center">1</p>	<p>Install the software on your PC. Please refer to the enclosed manual</p>	
	<p>Battery cylinder and Subconn connectors:</p>	
<p align="center">2</p>	<p>The battery cylinder has 3 Subconn connectors: (corresponding connector in brackets)</p> <ol style="list-style-type: none"> 1. The time lapsed trigger is started, when the plug (see item 14) is attached (MCBH4F). The connector is also used for charging the battery, see item 4. 2. Attach USB cable for programming the time lapsed trigger (MCBH4M) 3. Power supply to motor (MCBH5F) 	
<p align="center">3</p>	<ol style="list-style-type: none"> 4. Outlet for 24 VDC from the battery. (MCBH2F). Constant power regardless of the timer's settings 5. Room for 2 more connectors at "5" and "6"  <p>Caution</p> <p>The outlet has no internal fuse and precautions must be taken to avoid any short circuit.</p>	

4	<p>The enclosed battery charger can be used for a main voltage between 100 and 240 VAC. The charger has a build-in circuit to prevent overcharging the battery.</p> <p>Connect the charger to the battery cylinder (connector 1) and turn on the main supply.</p>	
Preparing the sampler:		
5	<p>The sampler has 4 arms for securing the syringes. Turn the small finger screws anti-clockwise to release the arm, insert the syringes and close the arms. Secure by turning the screws in clockwise direction.</p>	
6	<p>Insert the syringes one by one: Extend the syringe to its full length and attach the handle to "C". Align the syringe into the groove "D".</p> <p>Finally you can secure all the syringes with the arms (item 5)</p>	
7	<p>Push down the top of the syringes</p>	

8	- All the way down	 A close-up photograph of a person's hand adjusting a syringe on a multi-station machine. The machine has several syringes mounted on a yellow frame. The hand is turning a small knob on the top of one of the syringes. The background is a solid blue color.
9	While holding the syringe in position, turn the arm "A" to secure the upper part of the release bar "B"	 A close-up photograph of the syringe loading mechanism. The mechanism is mounted on a yellow base. It features a blue arm labeled "A" and a black release bar labeled "B". A small blue square with the number "5" is visible on the yellow base. The background is a solid blue color.
10	The release arm has now secured and loaded the syringe.	 A close-up photograph of the syringe loading mechanism, similar to the previous image. The syringe is now secured and loaded. The blue arm labeled "A" is in a different position, and the black release bar labeled "B" is also in a different position. The small blue square with the number "5" is still visible on the yellow base. The background is a solid blue color.

Programming of time lapsed trigger:		
11	Attach the cable from the motor to the battery cylinder (connector 3)	
12	Attach the USB cable to connector 1 (on the battery cylinder) and to the PC. You can now do the setup for the time lapsed trigger by starting the appropriate software. Please refer to the software's manual for the programming.	
13	 Caution Remove the USB cable and insert dummies into all unused connectors, except for "1". Secure dummies firmly to prevent ingress of water into the connector during deployment of the sampler.	
14	When you are ready to deploy the multi water sampler, insert the plug into connector "1". The time lapsed trigger is now activated, so you can deploy the sampler.	
Removing the lids for the battery cylinder:		
15	You can remove the lid by unscrewing 3 screws. The chamber may have some vacuum, so it is hard to remove the lid. Insert the 3 finger screws; turn each screw 1-2 revolutions clockwise, one by one.	

	Maintenance
	All parts of the multi water sampler shall be rinsed with fresh water. We recommend regular cleaning with fresh water and all moveable parts must be moved forth and back to ensure all dirt has been removed.

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