

Ruttner Water Sampler, 1,0 L
Model 11.001 – ver. 2

Manual

KC Denmark A/S

Research Equipment
Limnology • Oceanography • Hydrobiology

Ruttner Water Sampler, 1,0 L – Ver. 2




Caution

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.

Always lower the water sampler into the water before releasing the drop messenger. If not, the thermometer may be broken.

We recommend a maximum depth of 70 m because of the thermometer. Removal of the thermometer allows an unlimited depth.

Item	Description	
1	<p>The water sampler is based on the Ruttner design and it is suitable for taking samples in lakes, water borings, wells, etc. It is equipped with an internal thermometer for registration of the in situ temperature.</p> <p>The sampler is shown in closed position.</p>	

Preparation

2 Attach a suitable line to the upper end of the steel bar. We recommend using a 2 or 3 mm polyester line. Tie a firm knot or a bowline and check that the drop messenger will pass over the knot.



Caution

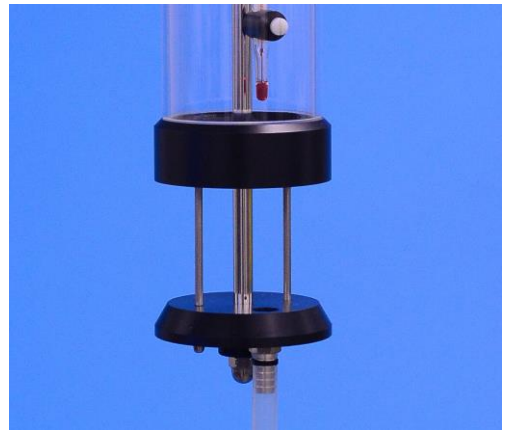
Tie the knot properly; otherwise, you may lose the sampler into the water.

Ensure the white plastic clamp is closed by squeezing it, see item 7.

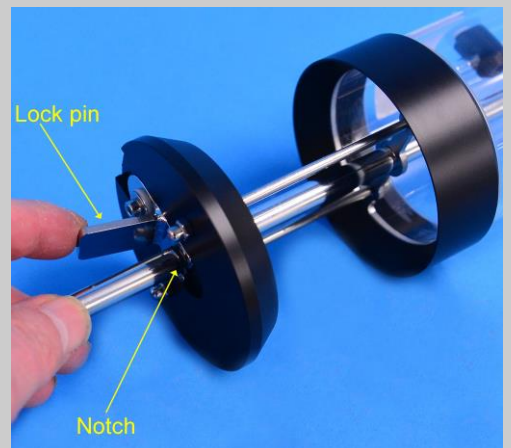



Loading the Sampler

2 Holding the water sampler in vertical position, the bottom part will slide down.





3 The upper part of the steel bar has a notch. Lift the upper lid and push the lock pin into the notch.



4	<p>The water sampler is now loaded, ready for deployment.</p>	
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Deploying the Sampler

5	 <p>Caution</p> <p>Always lower the water sampler into the water before releasing the drop messenger. Otherwise, the thermometer may be broken.</p>	
6	<p>Lower the water sampler to the desired depth, release the drop messenger, and when it hits the lock pin, the sampler will close.</p> <p>For a correct in situ measurement of the temperature, you may wait a while before lifting up the water sampler.</p>	

Emptying the Sampler

7

After retrieving the sampler to the surface, you can empty it by unlocking the plastic clamp.



Storing and Maintenance

8

Before storing, you must rinse the sampler with fresh water. Store in open position, so the inner parts will become dry.



Caution

Do not use alcohol for cleaning acrylic parts. After emptying, rinse the water sampler thoroughly using fresh water.

Do not use alcohol for cleaning acrylic parts.

Items, like PP/PVC/acrylic tubes, rubber seals, motor houses with or without Fluorinert, etc., and a long exposure to direct sunlight or lack of clean up for salt water might affect the durability and stability of the products and will remain uncovered by the warranty.

Safety Regulations

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.

An expert maintenance technician fully familiar with the attendant hazards must only do all maintenance, inspection and repairs.

When working with the unit in areas, which are difficult to access or hazardous, ensure to take adequate safety precautions for the operator and others in compliance with the provisions of law on health and safety at work.

Replace worn component with original spare parts.

Rev.: August 7, 2018 - lkj

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