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Variable Speed Portable Sample Pump: SP200

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Congratulations on your purchase of the Global Water SP200 Variable Speed Portable Sample Pump. This instrument has been quality tested and approved for providing accurate and reliable measurements. We are confident that you will find the SP200 to be a valuable asset for your application. Should you require assistance, our technical staff will be happy to help.

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I. SP200 Checklist

- a. Variable Speed Portable Sample Pump
- b. 15' pickup hose
- c. 10' Battery Cable (Inside Enclosure)
- d. SP200 Manual
- e. 12 volt battery (Not included)

II. Inspection

- a. Your SP200 unit was carefully inspected and certified by our Quality Assurance Team before shipping. If any damage has occurred during shipping, please notify Global Water Instrumentation, Inc. and file a claim with the carrier involved.

Use the checklist to ensure that you have received everything needed to operate the SP200.



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III. Description

- a. The Global Variable Speed Portable Sample Pump, SP200, is designed specifically for the user that needs to take samples in areas where it is not reasonable to have a permanent sampler. The sampler has a speed adjustment knob that allows the user to determine what the sampling rate is. The pump is also reversible, so the pickup hose can be purged prior to moving the pump or taking the next sample.
- b. The Global Variable Speed Portable Sample Pump consists of a rugged, water resistant, lockable carrying enclosure. The enclosure contains an external peristaltic sampling pump, a 15' pickup hose with strainer, and a 10' battery cable.

IV. Using the Variable Speed Portable Sample Pump

Pick up hose set up

- a. The pickup strainer should be submerged under water and should be situated to avoid contact with the bottom.

Sampling unit

- b. The sampler should be placed upright.
- c. Secure the battery cable to the battery connector on the enclosure's front panel.
- d. Ensure the toggle switch is in the off position. Attach the battery cable's leads to a 12V battery.
- e. Place the sample bottle under the output spout.
- f. Push the toggle switch into the forward position to begin pumping. Adjust the pump speed with the control knob.
- g. Push the toggle switch to the off position to stop the pump or turn the speed control knob to zero velocity. Once the sample is taken, the toggle switch can be used to reverse the pump's direction to purge the pick up hose.



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V. Specifications

Sample Size:	Variable
Operating Temperature:	0° to +70°C
Size of unit:	9" x 7.5" x 4.5"
Weight:	4.5 lb
Operating Voltage:	12 V
Current Draw:	2A max
Materials:	
Enclosure:	Expanded UV protected PVC
Sample Tubing:	15' nylon reinforced 1/4" ID polyethylene flexible tubing with intake strainer
Sample Pump:	
Flow Rate:	Variable (500 ml per minute max at 4 ft. head)
Purge Rate	Same
Type:	Peristaltic
Pump Tubing:	Norprene 1/4" ID
Maximum Lift:	22'

VI. Maintenance Sampler

- a. The Global Water SP200 Variable Speed Portable Sample Pump requires minimal maintenance. The sampler enclosure is rain resistant and rugged. Avoid exposure to extremely rough usage. Routinely wipe down the carrying case, rinse the pickup hose and debris strainer with mild soap and warm water. Additional norprene tubing for the sampler pump, removable debris strainers, and pickup hose can be purchased from Global Water (see Appendix A section).



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VII. Trouble Shooting

Issue: The pump does not work

- a. Test the battery voltage and ensure that it has a full charge.
- b. Test the battery cables for continuity.
- c. Open enclosure verify that battery and motor connections are attached to circuit board.

Other issues

- d. Call us for tech support: 800-876-1172 or 916-638-3429 (many problems can be solved over the phone). Fax: 916-638-3270 or Email: globalw@globalw.com.

Be prepared to describe the problem you are experiencing including specific details of the application and installation and any additional pertinent information.

- e. In the event that the equipment needs to be returned to the factory for any reason, please call to obtain an RMA# (Return Material Authorization). Do not return items without an RMA# on the outside of the package.

Include a written statement describing the problems.

Send the package with shipping prepaid to our factory address. Insure your shipment, as the warranty does not cover damage incurred during transit.

- f. When calling for tech support, please have the following information ready;
 1. Model #.
 2. Unit serial number.
 3. P.O.# the equipment was purchased on.
 4. Our sales number or the invoice number.
 5. Repair instructions and/or specific problems relating to the product.



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VIII. Warranty

- a. Global Water Instrumentation, Inc. warrants that its products are free from defects in material and workmanship under normal use and service for a period of one year from date of shipment from factory. Global Water's obligations under this warranty are limited to, at Global Water's option: (I) replacing or (II) repairing; any products determined to be defective. In no case shall Global Water's liability exceed the products original purchase price. This warranty does not apply to any equipment that has been repaired or altered, except by Global Water Instrumentation, Inc., or which has been subject to misuse, negligence or accident. It is expressly agreed that this warranty will be in lieu of all warranties of fitness and in lieu of the warranty of merchantability.
- b. The warranty begins on the date of your invoice.



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IX. Appendix A: Accessories

<u>Part Description</u>	<u>Part Number</u>	<u>Unit</u>
12V 5Ah Battery	00-010	Each
Battery Cable	CJ0100	Each
Battery Charger	FE0400	Each
Pickup Hose	00-546	Feet
Pickup Strainer	CA0300	Each
Pump tubing	00-744	Feet