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4-20 mA Output Module
RG700



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Congratulations on your purchase of the Global Water RG700 4-20 mA Output Module. This instrument has been quality tested and approved for providing accurate and reliable measurements. We are confident that you will find the RG700 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. RG700 Checklist

- a. 4-20 mA Output Module
- b. RG700 Manual

II. Inspection

- a. Your RG700 unit was carefully inspected and certified by our Quality Assurance Team before shipping. If any significant 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 RG700.

III. Description

- a. The Global 4-20 mA Output Module, RG700, is a rugged, reliable, and accurate instrument for converting input pulses into a 4-20mA analog output signal.

IV. Installing the 4-20 mA Output Module

- a. Place the module in an area that is protected from direct rainfall and immersion in water. The module is water resistant, not water proof.
- b. The pulse device is connected to terminals 1 and 2. Polarity is not an issue. Please refer to Appendix A: RG700 terminal diagram.
- c. Terminals 3-5 are output ports which are not used. Terminal 4 is the 4-20mA current output.
- d. Terminals 6-8 are the module's power terminals. Terminal 6 is the positive voltage input switch to the attached sensor. Positive voltage goes into terminal 7. Terminal 8 is for the ground signal.
- e. If the unit is intended to operate indefinitely, connect terminals 6 and 7 together.



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- f. Connect the monitoring device to the module using terminal 7 as the power source, terminal 4 as the signal wire, and terminal 8 as the ground wire.

V. Using the 4-20 mA Output Module

- c. There are two versions of the 4-20 mA Output Module. One is designed to output 20mA when the pulse rate is 32 pulses/minute. The other is designed to output 20mA when the pulse rate is 4095 pulses/min.
- d. If the unit is switched on and off via terminal 6, the power must remain on for 1 minute before the reading is valid.

VI. Specifications

Range:	4-20mA
Operating Temperature:	0° to +51°C
Size of unit:	3.25"x1.5"x2"
Weight:	.5 lb.

VII. Maintenance

- a. The unit should be cleaned periodically using a damp clean cloth. Do not use Acetone.



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VIII. Trouble Shooting

Issue: Module not reading correctly

- a. Check battery voltage.
- b. Verify pulse input device is working correctly.

Other issues

- a. Call us for tech support: 800-876-1172 or (979) 690-5560 (many problems can be solved over the phone). Fax: (979) 690-0440 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.

- b. If the equipment needs to be returned to the factory for any reason, please call to obtain a RMA # (Return Material Authorization). Do not return items without a 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.

- c. 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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IX. 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.



X. Appendix A: RG700 terminal diagram

