



DIGITAL GLYCOL SYSTEM PROGRAMMING GUIDE

OPERATION & MAINTENANCE MANUAL



PLEASE RECORD THE FOLLOWING DATA
(Information is located on the product label or packing slip)

Model Number: _____

Pressure Setting: _____

Serial Number: _____

Installation Date: _____

Installation Location / Application: _____

The above information will help when ordering replacement parts and accessories for your Digital Glycol System.

J.L. WINGERT CO. MANUFACTURED PRODUCTS

Mixers, Bypass Feeders, Filter Feeders, Bromine Feeders, Sample Coolers, Sludge Traps, Separators, Separator Systems, Tank Stands, Tank Package Systems, Glycol Feed Systems, Coupon Racks, Control Stations, NEMA Enclosures, Custom Packaged Systems and Specialty Welding

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1.0 SAFETY

J.L. Wingert Co.'s equipment is designed and built with safety in mind. However, proper installation and is necessary for your overall safety.

DO NOT INSTALL, OPERATE OR REPAIR THIS EQUIPMENT WITHOUT READING THIS MANUAL AND THE SAFETY PRECAUTIONS CONTAINED THROUGHOUT.

BE SURE THAT ALL INSTALLATION, OPERATION, MAINTENANCE AND REPAIR PROCEDURES ARE PERFORMED ONLY BY QUALIFIED INDIVIDUALS.

1.1 SAFETY HIGHLIGHTS

Read and understand the following safety highlights.



ELECTRICAL SHOCK CAN KILL

Do not perform any services without first disconnecting electrical service to all equipment. High voltage electrical power is present inside the electrical enclosure. Install and ground equipment in accordance with the U.S. National Electrical Code, all local codes and the manufacturer's recommendations. Electrical installation and repair should be performed by a qualified individual.



PRESSURE INSIDE THE UNIT

See design specification for maximum operating pressure. Do not perform maintenance or repair without first releasing the water pressure and draining the fluid from the unit.



EQUIPMENT IDENTIFICATION LABEL

Identification label provides equipment information. Be sure the voltage, phase and frequency of the input power are as specified on the Equipment Identification Label and conform with your requirements.

Example Only

2.0 FACTORY SETTINGS

Settings for a single pump Glycol Feed System (example: GL50-E1-D):

R00B003	GAIN	S = +32767
		I = -32768
		A = +01500
		B = +00255
		C = +00000
R00B010	CUT-OUT	C = +00040
R00B011	CUT-IN	C = +00010
R00B040	PUMP ON-DELAY	ACTIVE = 00005
R00B041	PUMP OFF-DELAY	INACTIVE = 00002

FACTORY PRESET CUT-IN: 10 PSI

FACTORY PRESET CUT-OUT: 40 PSI

FACTORY PRESET PUMP ON-DELAY: 5 SECONDS

FACTORY PRESET PUMP OFF-DELAY: 2 SECONDS

Settings for a dual pump Glycol Feed System (example: GL50-2E1-D):

PUMP 1 SETTINGS	R00B003	GAIN	S = +32767
			I = -32768
			A = +01500
			B = +00255
			C = +00000
	R00B010	CUT-OUT	C = +00040
	R00B011	CUT-IN	C = +00010
R00B040	PUMP ON-DELAY	ACTIVE = 00005	
R00B041	PUMP OFF-DELAY	INACTIVE = 00002	
PUMP 2 SETTINGS	R00B073	GAIN	S = +32767
			I = -32768
			A = +01500
			B = +00255
			C = +00000
	R00B078	CUT-OUT	C = +00040
	R00B079	CUT-IN	C = +00010
R00B054	PUMP ON-DELAY	ACTIVE = 00005	
R00B053	PUMP OFF-DELAY	INACTIVE = 00002	

FACTORY PUMP 1 PRESET CUT-IN: 10 PSI

FACTORY PUMP 1 PRESET CUT-OUT: 40 PSI

FACTORY PUMP 1 PRESET PUMP ON-DELAY: 5 SECONDS

FACTORY PUMP 1 PRESET PUMP OFF-DELAY: 2 SECONDS

FACTORY PUMP 2 PRESET CUT-IN: 10 PSI

FACTORY PUMP 2 PRESET CUT-OUT: 40 PSI

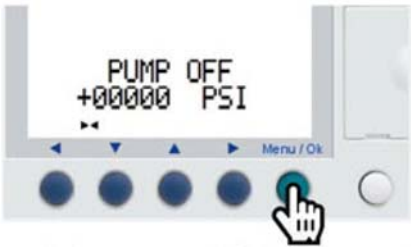
FACTORY PUMP 2 PRESET PUMP ON-DELAY: 5 SECONDS

FACTORY PUMP 2 PRESET PUMP OFF-DELAY: 2 SECONDS

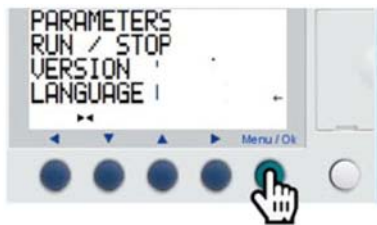
3.0 HOW TO CHANGE THE CUT-IN AND CUT-OUT PRESSURES ON THE DIGITAL GLYCOL SYSTEM

Please note that J. L. Wingert Digital Glycol Feed Systems are preset at the factory with a Cut-In of 10 PSI, Cut-Out of 40 PSI, Pump On-Delay set at 5 seconds and the Pump Off-Delay set at 2 seconds.

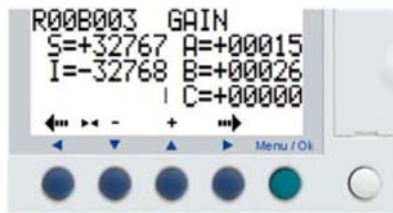
1. Press the green "Menu/Ok" button.



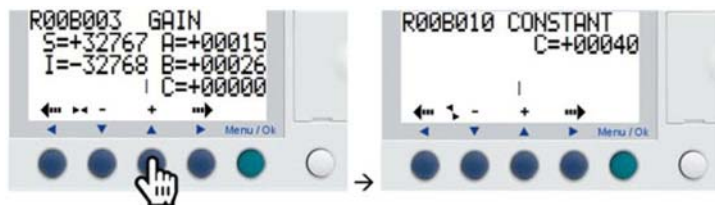
2. With "Parameters" blinking, press the green "Menu/Ok" button. Use the Up and Down arrows to switch between categories.



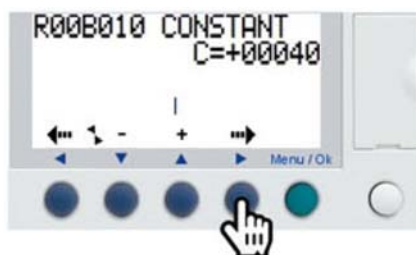
3. The 1st screen will read "R00B003 Gain" and "003" will be blinking.



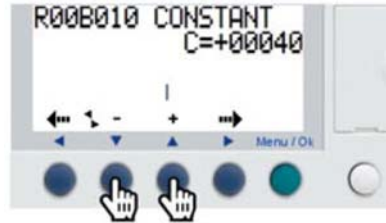
4. Press the Up key until you see "R00B010" and "010" blinking. R00B010 is the Cut-Out pressure, example: C=+00040 is 40 PSI.



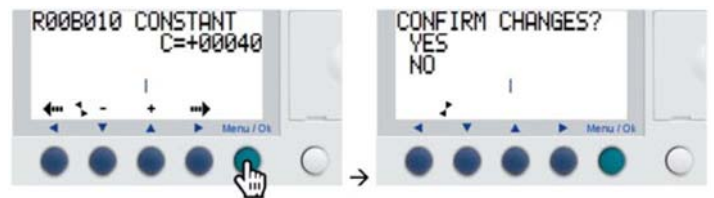
5. With "010" blinking, press the Right arrow key until the Cut-Out value is blinking.



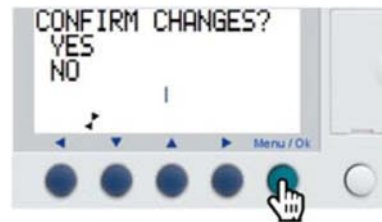
6. Press the Up and Down keys until the desired Cut-Out is achieved.



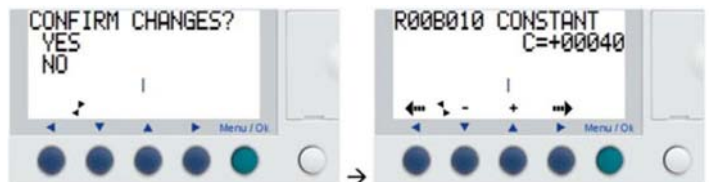
7. Next press the green "Menu/Ok" button to display a confirmation screen.



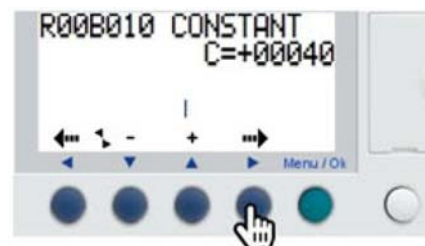
8. With the "YES" blinking, press the green "Menu/Ok" button to confirm the Cut-Out Change. Use the Up and Down arrows to switch between "Yes" and "No".



9. Once the new Cut-Out pressure is confirmed, your change will display back to the Cut-Out screen (R00B010).

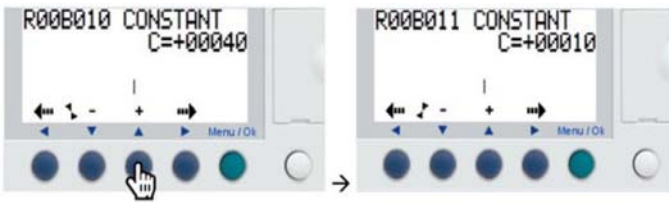


10. Now press the Right arrow key until "010" is blinking.

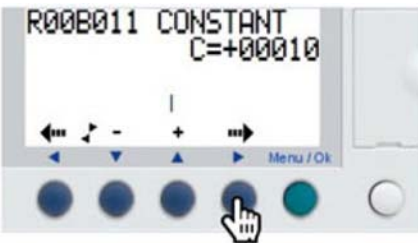


3.0 HOW TO CHANGE THE CUT-IN AND CUT-OUT PRESSURES ON THE DIGITAL GLYCOL SYSTEM (CONTINUED)

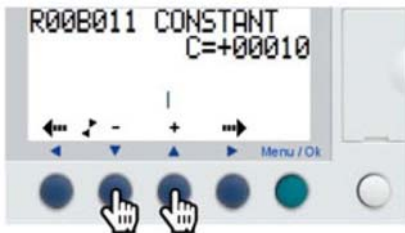
11. Press the Up key to get to the next screen that reads "R00B011." This is the Cut-In screen.



12. With "011" blinking, press the Right arrow key until Cut-In value is blinking.



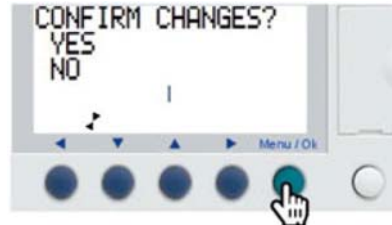
13. Press the Up and Down keys until the desired Cut-In is achieved.



14. Next press the green "Menu/Ok" button and it will display a confirmation screen.

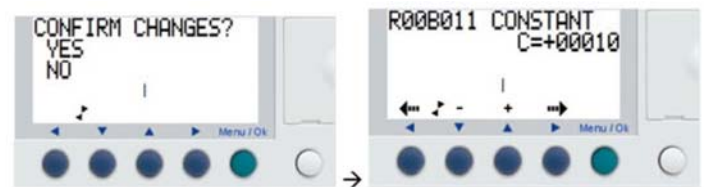


15. With the "YES" blinking, press the green "Menu/Ok" button to confirm the Cut-Out. Use the Up and Down arrows to switch between "Yes" and "No".

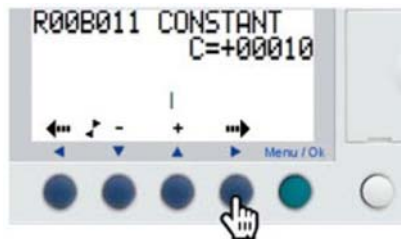


NOTE: See page 3 for pump(s) Cut-Out and Cut-In addresses.

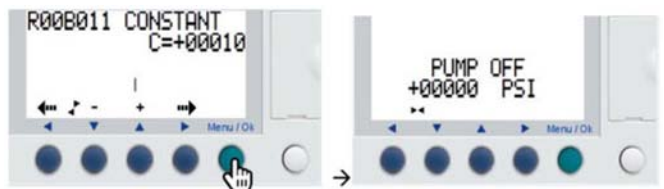
16. Once the new Cut-In pressure is confirmed, your change will display (R00B011).



17. Now press the Right key until "011" is blinking.



18. Finally, press the green "Menu/Ok" button and this will exit the parameter editing and bring you back to the Main Screen.

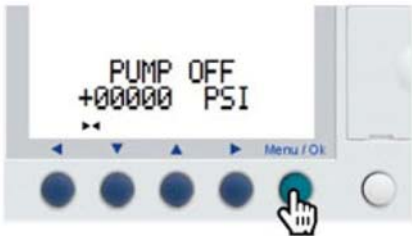


NOTE: For a Dual Glycol Feed System, repeat steps 4 to 18. Second System's Cut-Out is "R00B053" and the Cut-In is "R00B054".

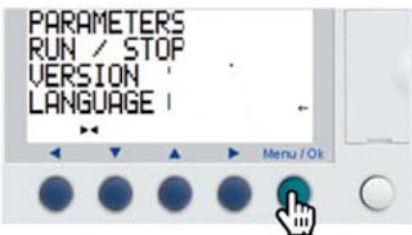
4.0 HOW TO CHANGE THE PUMP ON AND OFF-DELAY

The controller for the Digital Glycol is preprogrammed with an On-Delay for turning on the pump, and an Off-Delay for turning the pump off. The preset On-Delay is 5 seconds and the preset Off-Delay is 2 seconds. This means that when the pressure drops to the Cut-In pressure, the pump will turn on after the 5 second time delay; conversely, when the Cut-out pressure is achieved, the pump will not turn off for 2 seconds. To change the Factory Preset On and Off-Delays follow the instructions below.

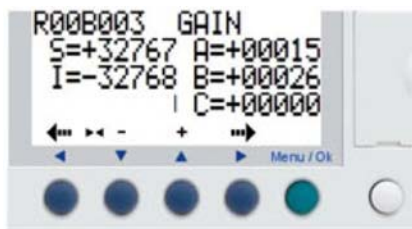
1. Press the green "Menu/Ok" button.



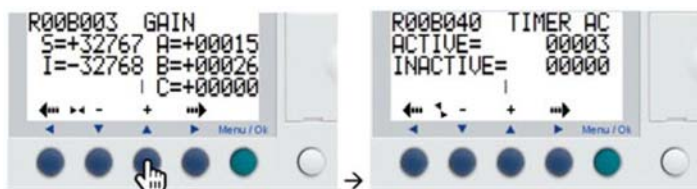
2. With "Parameters" blinking, press the green "Menu/Ok" button. Use the Up and Down arrows to get to the correct selection.



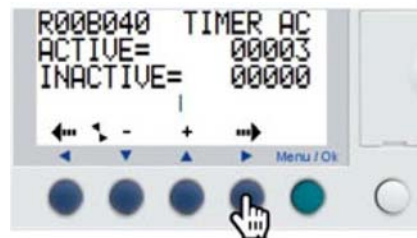
3. The 1st screen will read "R00B003 Gain" and "003" will be blinking.



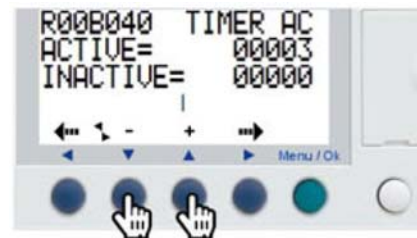
4. Press the Up key until you see "R00B040" and "040" blinking. R00B040 is the On-Delay, example: Active = 00003, is a 3 second On-Delay.



5. With "040" blinking, press the Right arrow key until the Active (On-Delay) value is blinking.



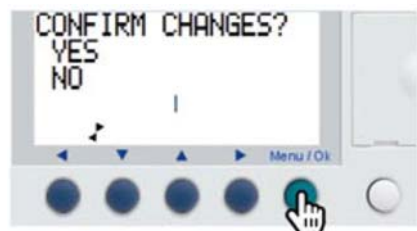
6. Press the Up and Down keys until the desired On-Delay is achieved.



7. Next press the green "Menu/Ok" button to display a confirmation screen.



8. With the "YES" blinking, press the green "Menu/Ok" button to confirm the On-Delay Change. Use the Up and Down arrows to switch between "Yes" and "No".

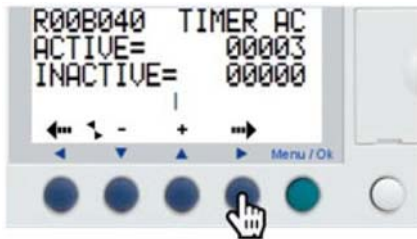


4.0 HOW TO CHANGE THE PUMP ON AND OFF-DELAY (CONTINUED)

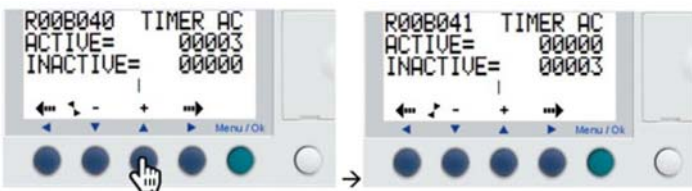
9. Once the new On-Delay change is confirmed, you will be redirected back to the On-Delay screen (R00B040).



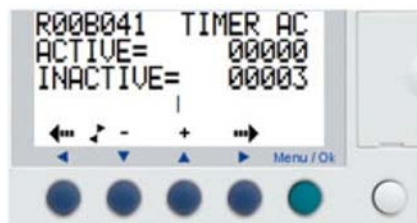
10. Now press the Right arrow key until "040" is blinking.



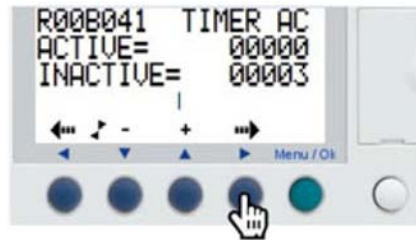
11. Press the Up key to get to the next screen that reads "R00B041." This is the Off-Delay screen.



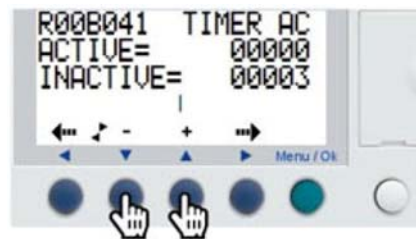
12. Press the Up key until you see "R00B041" and "041" is blinking. R00B041 is the Off-Delay, example: Inactive = 00003, is a 3 second Off-Delay.



13. With "041" blinking, press the Right arrow key until the Inactive (Off-Delay) value is blinking.



14. Press the Up and Down keys until the desired Off-Delay is achieved.



15. Next press the green "Menu/Ok" button to display a confirmation screen, and you will be taken to a new screen to confirm the change.



16. With the "YES" blinking, press the green "Menu/Ok" button to confirm the Off-Delay Change. Use the Up and Down arrows to switch between "Yes" and "No".

