

# PGR-01-PWM Module Programmer Instructions

## Extreme Caution!

Beware of abrupt and unexpected movements of hydraulic functions while using this programmer to setup a PC-PW module. Ensure a safe workplace!

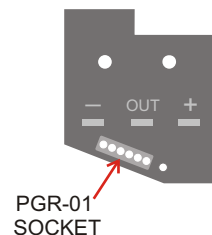
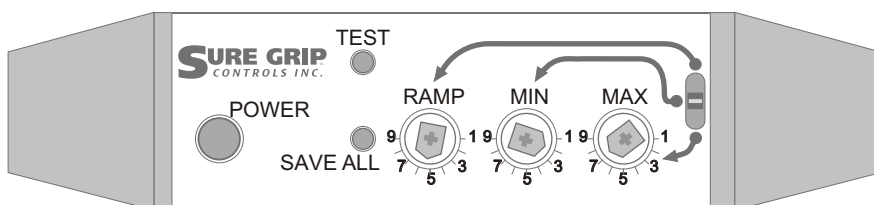


Always connect and disconnect the programmer to the PC-PW module with the power off. Failure to do this may result in damage to the programmer and PC-PW module and/or unexpected hydraulic activation!

When connecting the programmer, ensure the pins are correctly aligned in the module socket. Reversed connection may damage the programmer and module.

## Programming Instructions:

- 1) With the module power off, plug the programmer into the module. Ensure that the connector is not reversed when using the 90 degree adapter or the module or programmer may be damaged. The straight connector can only be inserted the correct way.
- 2) Turn on the power to the module. The POWER LED will be lit if the programmer is properly connected to the module, and if the module is powered.
- 3) Select the MIN function and set the MIN rate to 1. Press the TEST button and increase the MIN setting until the desired minimum speed is reached.
- 4) Select the MAX function and set the MAX rate to 5. Press the TEST button and adjust the MAX rate until the maximum desired speed is reached.
- 5) Select the RAMP function. Increase and TEST the RAMP rate until the desired ramp rate is achieved. Pressing the TEST button while the RAMP function is selected will cause the module to start at the MIN setting and increase to the MAX setting at the RAMP speed. Releasing the TEST button will cause the module to decrease speed at the RAMP rate until it is off.
- 6) Repeat steps 3-5 until the hydraulics operate as desired. Be sure to press the TEST button after each function is adjusted to temporarily save the setting.
- 7) After adjusting all the setting, you must press the SAVE ALL button for at least 3 seconds to permanently save the setting to the module. Failing to press SAVE ALL will result in loss of all the temporary setting loaded into the module with the TEST button when the module is next powered down. After SAVE ALL is pressed, the module will be automatically disabled until the module power is turned off then on.
- 8) Unplug the programmer from the PC-PW module with the power off.



## **Function Switch**

Selects between MIN, MAX, and RAMP functions.

## **MIN Adjustment**

Adjusts the minimum or starting flow rate when the module is just activated.

## **MIX Adjustment**

Adjusts the maximum flow rate when the module is fully pressed. Use this to maximum signal to the valve.

## **RAMP Adjustment**

Adjusts how fast the module will respond from MIN to MAX and from MAX to MIN.

## **TEST Button**

Pressing this switch cause **ONLY** the function that is being adjusted to be temporarily saved and the module to operate. (E.g. If adjusting the MIN setting, when TEST is pressed it would save the setting to the module and run the valve at the minimum speed setting to test for correct operation.)

Note: Each time a function is adjusted, you must press the TEST button to save the setting before selecting the next function.

## **SAVE ALL Button**

Pressing the SAVE ALL button will permanently save ALL the setting which have been run with TEST.