

PROGRAMMING AN ORION SERIAL REPEATER - ORION

1. Double-click on the ORION Repeater icon to open the repeater program. Enter your 3 initials, then click the <OK> button.
2. Connect the Null Modem Serial Cable to the PC that has the ORION Serial Repeater program and to the serial port inside of the repeater box. Ensure that the battery is plugged in.
3. Click the <Read Repeater> button from the main menu to view a list of ORION serial numbers currently stored in the repeater or to program and update the repeater with new ORION serial numbers.
4. If the grid is blank, click on the <Edit Selected SN> button. Enter the serial number of the transmitter you wish to program into the repeater box. You can enter this by using the number key pad on the screen or by typing it in on the PC keyboard in the NEW ORION SN field. Once the serial number is entered, click the <OK> button. The main menu screen will now display a list of new transmitter serial numbers entered along with other serial numbers already in the repeater.
5. To edit an existing serial number in the list, highlight the serial number from the list and click <Edit selected SN>. Enter the new serial number by using the keypad on the screen or by typing it in the NEW ORION SN field. Click the <OK> button.
Note: All data fields in the display list will be blank for newly entered serial numbers.
6. To program the list of serial numbers you want the repeater to repeat, connect the null modem serial cable to the PC and to the serial port inside the repeater box. Click the <Program Repeater> button.

Note: A warning box will appear to alert you that programming will overwrite all transmitters currently in the repeater.
7. Click <OK> to continue. You will see a programming screen where a comment and repeater location can be added. Click <Save>. You will now see a Listen screen which will display a list of transmitters in range as well as the list of new transmitters programmed to the serial repeater box. Newly programmed transmitter serial numbers will be highlighted in yellow font. Click <Done> to go back to the main menu.

Repeat steps 2-7 to program additional ORION transmitters.

Note: To turn off the Listen option, click on the OPTIONS menu and go to SETTINGS. Click in the box to remove the check mark in the field marked SHOW LISTEN SCREEN AFTER PROGRAMMING. By doing this only the transmitters that were programmed into the repeater will be displayed in the list.

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BADGER® ORION® REPEATER PROGRAM TIPS

REMOVING A SERIAL NUMBER FROM THE REPEATER

To remove a serial number from the repeater, click on the line of the serial number you wish to remove to highlight it. Then click on the REMOVE SELECTED SN button. Click <OK> to remove transmitter from the list.

CLEARING ALL SERIAL NUMBERS FROM THE LIST

If you wish to clear all serial numbers from the list click on the CLEAR SN LIST button. This option will not delete serial numbers programmed into the Serial repeater. It will only clear the list of transmitters from the Listen screen. To remove serial numbers see removing Serial Number etc. section.

TOOLS MENU

TOOLS\LISTEN BUTTON

The Listen feature will cause the repeater to show every ORION transmission in range to the repeater software for 30 seconds. This is another way to program serial numbers from this list into the repeater. It is also handy in determining a mounting location for the repeater box. To program ORION transmitters from the listen screen to the repeater box, click on the transmitter serial number from the list.

Then click the SELECT SN button. You will see a box popup showing the transmitter added. Click <OK>. Do this for all transmitters in the list that you would like to program. When you are finished click <Done>, you will then be back at the main menu and a list of new transmitters added will be displayed.

To program the serial numbers, click on the <Program Repeater> button.

Note: A warning box will appear to alert you that programming will overwrite all transmitters in the repeater. This will not affect any transmitter previously programmed unless you changed something prior to this step.

Click <OK> to continue and then click <Save> on the PROGRAMMING SUCCESSFUL screen.

TOOLS\TRANSMIT

Clicking the <Transmit> button will allow you to determine if the repeater's transmissions from the current location will be received at the target location. Once you click this button the repeater software will transmit serial numbers previously programmed into the repeater.

A notice box will appear prompting you that the repeater should be done transmitting. Click <OK> once you have completed this process.

SAVE LIST

This feature will allow you to save a list of ORION transmitters to a file for further diagnostics. This tool is handy in determining how many transmissions were received from an ORION transmitter in the field.

DONE

Clicking <Done> will end the repeater software program.

For Badger Meter Technical Support call: 1-800-456-5023. Technical Support hours are 7:30 a.m.- 4:30 p.m. C.S.T. Emergency 24 hour Technical Support Paging is available 4:30 p.m. – 7:30 a.m. Mon-Fri, and 24 hours weekends/holidays.

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