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EZ Command Remote Programmer Model 8600

INSTALLATION AND PROGRAMMING GUIDE

P/N 90007552

The **EZ Command Remote Programmer** is capable of controlling all EZ Pro controller functions including programming and manual zone operation via a secure radio link. There can be a tremendous timesaving when installing, servicing and operating a Nelson EZ Pro irrigation system by using this technology.

Battery Installation

Remove the screw on the battery cover and remove the battery cover. Install two new "C" (LR14 in Europe) size alkaline batteries. Replace the battery cover and screw.

Low Battery Indicator

There is a Low Battery Warning symbol (Pudik show the symbol Low battery warning from page 22 EZ Pro instructions) on the EZ Command LCD. When this is displayed and flashing new batteries must be installed in your EZ Command.

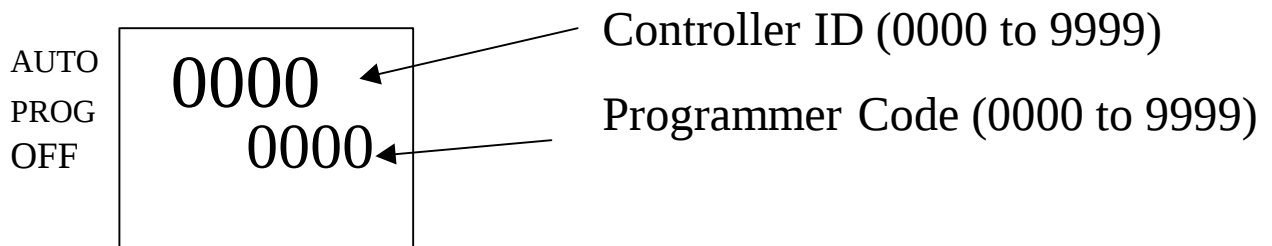
Note: When radio connected to the EZ Pro if the Low Battery Warning symbol is displayed it means new batteries must be installed in the EZ Pro

Turn the EZ Command Remote Programmer On and Off

Turn on the **EZ Command Remote Programmer** by pressing any key or moving the dial to any position. After 1 minutes of non-use the unit will automatically turn off. To turn the unit off when radio connected press the **Radio On/ Off** key.

EZ Pro Radio Setup

A four digit **Controller ID** and a four digit **Programmer Code** must be programmed into the **EZ Pro** controller prior to making a radio connection. Once set the controller will store these in memory and a radio connection can be made at any time.



Controller ID- Every controller must have a unique **ID**. This will prevent a conflict if more than one controller is within range of the radio signal. Write down the Controller ID for future reference.
Warning: Do not select the same Controller ID for two controllers within 1 mile of each other. Improper radio operation may result.

Programmer Access Code- Use the same **Programmer Code** for all of your **EZ Pro** controllers and **EZ Command Remote Programmers**. This **Code** provides the security to prevent unwanted radio access.
Reminder: Use the same Programmer Code on all of your EZ Pro controllers and EZ Command Programmers

Set a Controller ID and Programmer Code on the EZ Pro Controller

Set the **Mode** dial on the **EZ Pro** controller to the **Program** position. Turn the large dial on the **EZ Pro** controller to the **Radio Setup** position. Use the **SELECT +/-** to move between **Controller ID** and **Programmer Code**. Use the **ADJUST +/-** keys to set these as you choose.

Return the Mode dial to the OFF or Auto position

Pudik show figure 3 from EZ pro instructions here

Connecting by Radio with the EZ Command Remote Programmer

When the EZ Command Remote Programmer is turned on the LCD screen displays the last **Controller ID** and **Programmer Access Code** used. Use the **Select** and **Adjust +/-** keys to choose the **Controller ID** and **Programmer Code** to match the controller you wish to connect to. Press the Radio ON /OFF button to make the connection.

Note: There must be AC power to the EZ Pro in order to make a radio connection.

Connection Screen

When connected the **Radio Connected** (Pudik show symbol) symbol will show on both the **EZ Command** unit and on the **EZ Pro**. The LCD display will show the time and current status of the **EZ Pro**. The LCD screen will display the **EZ Pro's Mode Dial** position (Auto, Program, or Off) and **Program Dial** position (A, B, or C). If there are any zone problem messages these will be displayed on the LCD. If there is a Rain Delay Programmed or the Rain Sensor is activated these will be displayed.

The **EZ Command** LCD will display all programming or operation commands exactly as seen on the **EZ Pro** controller. This instant feedback assures that the EZ Pro controller retains any changes you make.

While radio connected the EZ Command will temporarily override dial settings and status of the EZ Pro. All manual and programming functions of the EZ Pro can be controlled from the **EZ Command Remote Programmer**.

Range of Radio Signal

Radio signal range is greatest when there is a clear line of sight between the EZ Pro and the EZ Command. The type and size of structure that the EZ Pro is located in as well as the local terrain may effect performance.

Connected Operation

After one minute of use without a dial turn or a button press the EZ Command will enter a "sleep" mode. This is to extend battery life. The unit will "wake" once a minute and update the LCD screen. Pressing any button or turning the dial will also "wake" the EZ Command.

After 15 minutes of non-use the radio connection will stop and the EZ Command will turn off. You will need to connect to the EZ Pro again.

Programming and Operating Instructions

While radio connected use the Large dial, SELECT buttons, ADJUST buttons, A,B,C button and the AUTO, PROG, OFF button on the EZ Command to program and operate the EZ Pro controller as desired. See the EZ Pro TM Instruction book for all programming and operating instructions.

Program changes made while radio connected are retained by the EZ Pro.

Disconnecting from the EZ PRO

To disconnect from the **EZ Pro** press the **Radio On/ Off** key. The radio will disconnect and the **EZ Command** unit will turn off. Once disconnected the **EZ Pro** will return to the previous status. Any program changes made will be saved in the **EZ Pro**.

Note: A manual zone run, a Cycle, or a 3 Minute Test started by the EZ Command will continue after the radio is disconnected. The EZ Pro will return to its previous status after the operation is finished.

Care of the EZ Command

Avoid letting the EZ Command get wet. While it is water-resistant it is not waterproof. Water inside the unit will damage the circuitry. Do not drop the EZ Command. This may damage the unit.

Troubleshooting and Service for the EZ Command

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Unable to radio connect	Controller ID and or Programmer Code do not match the EZ Pro controller	Check that the Controller Id and Programmer Code match exactly
Unable to radio connect	Two EZ Pro controllers in range with the same Controller ID	Change the Controller ID on one of the EZ Pro controllers
Unable to radio connect	EZ Pro does not have a model 8602 Radio Module installed	Install a model 8602 Radio Module
Unable to radio connect	No AC power to the EZ Pro controller	Connect AC power to the EZ Pro controller
Poor radio connection	Out of range or signal blocked by obstruction	Move closer to the EZ Pro location
Poor radio connection	Weak batteries	Install new alkaline C batteries
Unit will not turn on	Dead batteries	Install new alkaline C batteries
Low Battery Warning (Pudik show the symbol Low battery warning from page 22 EZ Pro instructions)flashing on LCD	Weak batteries in the EZ Command	Install two new alkaline C batteries in the EZ Command
Low Battery Warning (Pudik show the symbol Low battery warning from page 22 EZ Pro instructions)displayed on LCD while radio connected	Weak batteries in the EZ Pro	Install two new alkaline AA batteries in the EZ Pro

Technical Data

1. Temperature Range
Operating: -5 to +55 C
Storage: -30 to +85 C
2. Batteries

Two (2) Size C (LR14 in Europe) Alkaline batteries

3. Frequency

2.4 Ghz Spread Spectrum @ 10mw

FCC RULES

This equipment complies with PART 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

No user serviceable parts inside. Any changes or modifications could void the Nelson warranty and the user's authority to operate the equipment.

"IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied - The antenna used for this transmitter must be installed to provide a separation distance of at least 5 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

CANADIAN RADIO INTERFERENCE REGULATIONS

NOTE: This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the radio interference regulations of the Canadian Department of Communications.

WARRANTY

Limited Warranty

L.R. Nelson Corporation ("Nelson") warrants all electronic products to be free of defects in material and workmanship for a period of two (2) years from the original date of purchase. In the event of such defects, Nelson will repair or replace, at its option, the product or the defective part.

This warranty does not extend to damage to a Nelson product or part resulting from accident, misuse, alteration, neglect, abuse, improper installation or normal wear and tear, or to exterior appearance and color. This warranty extends only to the original user of the Nelson product.

If defect arises in a Nelson product or part within the warranty period, you should contact your installing contractor, Nelson retailer, distributor, or L.R. Nelson Corporation at one of the following locations:

One Sprinkler Lane	4780 Eucalyptus Ave.	3462 Maggie Blvd.
Peoria, IL 61615	Chino, CA 91710	Orlando, FL 32811
(309) 690-2200	800-800-0993	407) 648-1020
Fax (309) 692-5847	Fax 909-631-5025	Fax (407) 648-0924

Nelson may, at its option, require that the product or part be returned to a Nelson service point or your retailer or distributor. Nelson will determine whether the claimed defect is covered by the warranty. If coverage is found, the product will be repaired or replaced. Please allow 4 to 6 weeks for completion of repairs or replacement and return of the product or part. If a product or part is replaced, the replacement is warranted only for the remainder of the original product or part warranty period.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. L.R. Nelson Corporation does not authorize any person to create for it any other obligation or liability in connection with Nelson products. TO THE EXTENT ALLOWED BY LAW, ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THE NELSON PRODUCTS IS LIMITED IN DURATION TO THE DURATION OF THESE WRITTEN WARRANTIES. NEITHER L.R. NELSON CORPORATION NOR ITS DISTRIBUTORS OR DEALERS SHALL BE LIABLE FOR LOSS OF TIME, INCONVENIENCE, ECONOMIC LOSS, OR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE SALE OR DISTRIBUTION OF NELSON PRODUCTS WHETHER FOR BREACH OF WARRANTY HEREUNDER OR FOR NEGLIGENCE OR IN TORT. Some states do not allow limitations on how long an implied warranty will last of the exclusion or limitation on incidental or consequential damages, so the above limitations or exclusions may not apply to you.

If you have any questions concerning the warranty or its application, please write to L.R. Nelson Corporation, One Sprinkler Lane, Peoria, Illinois 61615, U.S.A. Attention: Customer Service.

CLAIMED DEFECTIVE MERCHANDISE POLICY

Products returned to the retailer or distributor and claimed defective must be inspected by the Nelson sales representative to determine warranty compliance. If approval is

granted, products will be repaired or replaced or a credit memorandum covering the net purchase price will be issued.