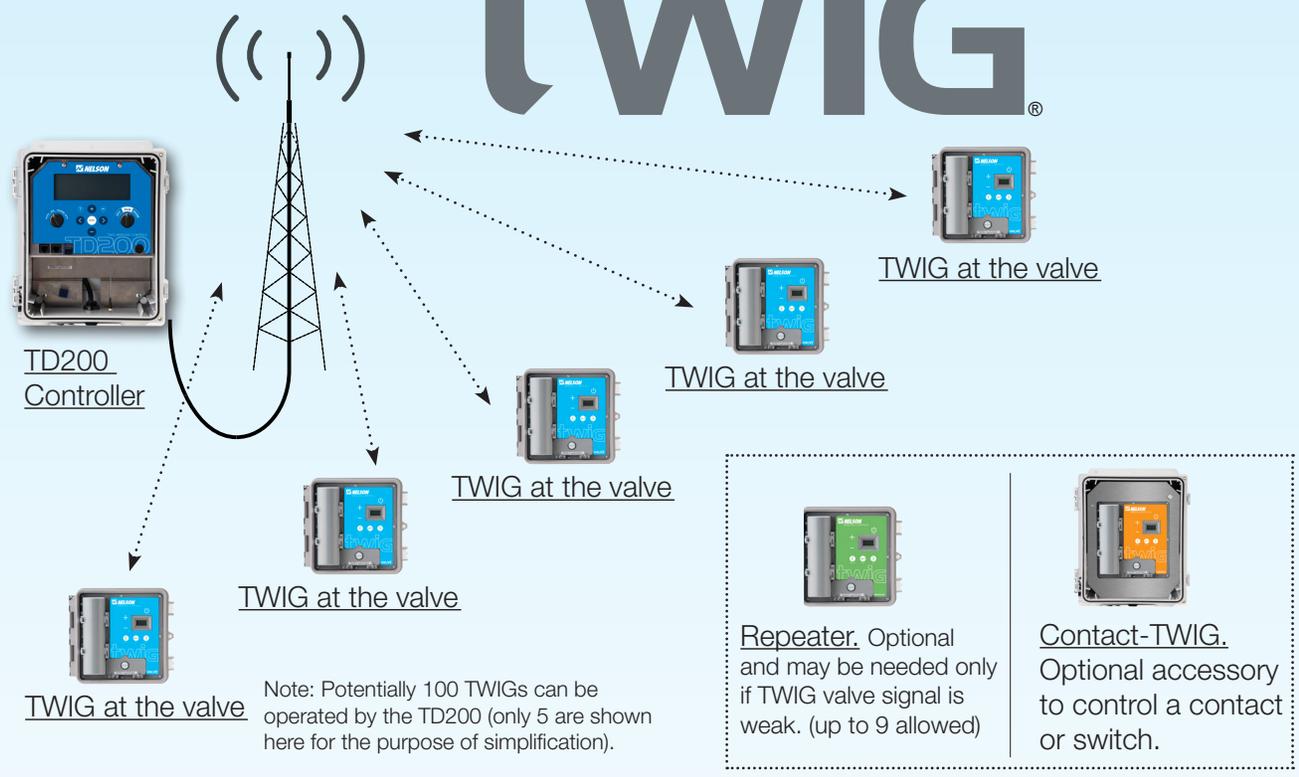




Quick Start Guide

twig®



Help Button

Display Selector

ID or network number (F00047)

USB memory.

Navigation Buttons

Escape or step backward

Selector dial for watering mode

- ▶ Line pointer
- ★ Edit or change of input
- ⏏ Valve open
- ⏏ Valve closed.
- 🔋 Battery level of the lowest TWIG
- 📶 Radio signal strength bars
- +++ Set Programs to cycle continuously.

Press ENTER to select line where ▶ is pointing. Then press ENTER to save a change.

More information available by pressing the right arrow or ? button.



TD200 QUICK START

Start by setting up the TD200 Controller

- 1 Apply power and rotate the left dial to SETUP
- 2 Select 'Set Date & Time' on the list and press ENTER. Adjust the date and time and then exit.

Make sure all the TWIGs are powered on and joined to the network. If it has not already been done then see '[Setting Up the TWIG in a network](#)' below.

TWIG QUICK START

Setting Up the TWIG in a network:

When the TWIG is shipped from the factory it has its own identity number (ID). ID numbers beginning with A operate one valve, B two valves and D four valves. Power up the TWIG by inserting batteries or removing the white plastic strip.



Identity number (ID) is factory set.

NETWORK QUICK START

Start the TWIG network process by having power to the TD200. It is best to set the TD200 controller display dial to VIEW. That way you can see the ID number of TWIGs that have joined the network. If at any time the TWIG display is blank simply press ENTER to wake the display. Remember the radios are still working even when the display goes blank.

Press the right arrow until you see NET. Press ENTER. If the TWIG is already in a network, the ID of the network of the TD200 will appear. If you want to join a new or different controller network, press the right arrow and see RESET. Then press ENTER and the TWIG will begin a search to discover available TD200 controller networks. When you see the network ID number you want to join on the display press ENTER. When any TD200 is discovered then its number will be displayed on the TWIG display and remain for about 3 seconds. While the number you want is still on the display, you must immediately press ENTER. If you happen to miss the network ID you want to join, it will cycle back in a short time so you can try again to select it by pressing ENTER. During the joining process the display will alternately flash "Join" and the time (seconds) remaining until it is done. When done, the signal bars will appear on the display. The TWIG has joined a network. At that point you can press and hold the + button if you want to view the radio signal strength. The maximum signal is 84 and normally a number higher than 20 is adequate.

Frequent question #1: Why does 'NONE' show on the TWIG display?

Answer: If 'NONE' remains on the display it means that TWIG has never been joined to any network and no TD200 network is discoverable. Check that your TD200 is turned on.

Frequent question #2: Why does 'FIND' show on the display?

Answer: That means the TWIG was previously joined to a network which is no longer available.

The TWIG can join only one network at a time. If there are no networks available in the area, the word 'Find' will flash. If that happens, check that your TD200 is powered on and the antenna is connected.



Easy TEST program creation.

- 1 Rotate the left dial 1 to PROGRAM
- 2 Scroll down and Select 'Make TEST Program' on the list then press ENTER. If you have questions simply press the ? button.
- 3 Press + to create the 'TEST' program. The TEST program makes a group for each valve automatically. (Groups are valves that run altogether)
- 4 The initial time that each group will be set to run is 1 minute.
- 5 Go to 'Edit Program' to view and Edit groups. Adjust watering duration for each group. Select each TWIG wanted in each group.
- 6 Make the program any name you want or leave it as TEST. To SAVE the program press ESC two times and then scroll down to SAVE.
- 7 Rotate dial 1 to ADJUST and make it Ready. Then turn the right dial 7 to RUN to start your irrigation program running.



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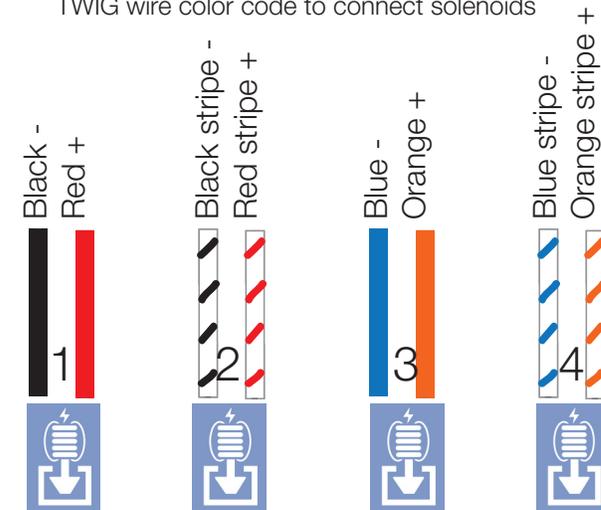
nelsonirrigation.com

MULTI-VALVE TWIGS TO CONNECT VALVES THAT ARE CLOSE-TOGETHER:

Multi-valve TWIGs are the way to run more valves with one TWIG. The models 'TWIG-2' and TWIG-4' have the capability to hook-up to several valve solenoids. This is a cost savings since only one TWIG is needed to control each valve independently. The colored wire leads are provided. The wire color code drawing below shows the pairs of wires to use for each solenoid. These should be kept in order because mis-matched pairs won't work. Pay attention to + and - polarity. Be sure to cap any unused wires. Limit the distance to the farthestmost valve to less than 50 ft. (the limit of wire length from TWIG to solenoid valve).



TWIG wire color code to connect solenoids



TWIG-4 wire colors for each solenoid valve number

LATCH TYPE SOLENOID REQUIREMENT:

The TWIG system uses latch solenoids. In order to minimize the battery power, a special latch (or pulse) solenoid is used. The required short electrical pulse takes extremely low power from the battery. The latching holds without any power required to keep it in place. It is designed to shift when a reverse polarity pulse of power is applied. The pulse duration is extremely short since it is less than one tenth of a second. Only the approved type of solenoid should be used. The advanced design of the TWIG has been perfectly matched to the pulse duration and power. Use only approved latch solenoids because others could malfunction. Note: the Nelson QC valve has reverse polarity for the wires. That is because it is normally closed and takes pressure to open it. That's the reverse of our other valves.



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WARRANTY AND DISCLAIMER The Nelson Wireless TWIG Control System is warranted for one year from the date of original sale to be free of defective material and workmanship when used within the working specifications for which the products were designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair of defective parts and the manufacturer will not be liable for any crop or other consequential damages resulting from any defects or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING the warranties of merchantability AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of this warranty nor to make any representations or warranty not contained herein. PATENT PENDING.